

Entomofungal pathogens maintained at NBAIR

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : National Bureau of Agricultural Insect Resources (ICAR) Bellary Road , H. A. Farm Post, Bengaluru-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-1)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Ludhiana 2006 B. Ramanujam Ludhiana, Punjab
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Un known insect sp. (Rice Pest)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North India

A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Beauveria bassiana</i> (PDBC-Bb-2)	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-2)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Bangalore 2006 B. Ramanujam Bangalore, Karnataka

Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Un known insect sp.
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25 ^o C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25 ^o C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-3)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Bangalore 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Adult insect of <i>Neochetina bruchi</i>
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH

Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-4)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Bangalore 2006 B. Ramanujam Bangalore, Karnataka

Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Larvae of <i>Spodoptera litura</i>
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-5 & 5a)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Chettalli 2006 B. Ramanujam Coorg, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Larvae and adults of <i>Hypothenemus hampei</i> (Coffee berry borer)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-6)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Attur 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006

Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Adults of Tree Hopper (Insect not identified)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

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	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-7)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Puttur 2006 B. Ramanujam Dakshina Kannada, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Grubs of <i>Plocaederus ferrugineus</i> (Cashew Stem Borer)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-8)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Guwahati 2006 B. Ramanujam Guwahati, Assam
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006

Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Grubs of <i>Dicladispa armigera</i> (Rice hispa)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road, H. A. Farm Post, Bangalore-560024
Last First Middle	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961

Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-10)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Ludhiana 2006 B. Ramanujam Ludhiana, Punjab
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Larvae of <i>Cnaphalocrosis medinalis</i> (Rice Leaf Folder)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil

Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

For Submission of Microbial Cultures

National Bureau of Agriculturally Important Microorganism (NBAIM)

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-11)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Rajankunte 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Nymphs and adults of <i>Tetranychus urticae</i> (Mites of Beans)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days

Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-12)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Guwahati 2006 B. Ramanujam Guwahati, Assam

Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Larvae of <i>Cnaphalocrosis medinalis</i> (Rice Leaf Folder)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-13)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Thadiankudisai 2006 B. Ramanujam Dindugal District, Tamil Nadu
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Nymphs of <i>Pentalonia nigronervosa</i> (Banana Aphid)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-14)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Doddaballapura 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006

Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Un known Insect
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-15)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Chennai 2006 B. Ramanujam Chennai, Tamil Nadu
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Unknown Insect
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH

Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana (PDBC-Bb-16)</i>
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Hoskote 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024

Isolation date	2006
Specimen isolated from (eg. leaf) stem, root, soil, egg mass, insect, etc	Grubs of <i>Holotrichia serrata</i> (Root grub of Vegetables)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

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	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961

Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-18, Bb-19, Bb-20)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Trichy June, 2007 B. Ramanujam Trichy, Tamil Nadu
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road, H. A. Farm Post, Bangalore-560024 June, 2007 Soil from Banana Crop
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects

IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-23)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Surkady 14-03-2008 B. Ramanujam Karaikal, Pondicherry
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 14-03-2008 Larvae of <i>Maruca testulalis</i> (Blackgram Spotted Pod Borer)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25 ^o C

Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-24)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by	Insect, Karaikal 15-03-2008

District and state	B. Ramanujam Karaikal, Pondicherry
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	15-03-2008
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Grubs of <i>Micraspis</i> sp. (Coccinellid beetle)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
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	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-25)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Nandalur 15-03-2008 B. Ramanujam Karaikal, Pondicherry
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 15-03-2008 Nymphs of <i>Nilaparvata lugens</i> (Rice Brown Plant Hopper)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH

Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana (PDBC-Bb-26)</i>
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Kherdhar 22-03-2008 B. Ramanujam Solan, Himachal Pradesh
Details of isolation Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024

Isolation date	22-03-2008
Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Grubs of <i>Brahmina</i> sp. (Potato Root Grub)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor	Designation : Principal Scientist
Ramanujam Bonam	Affiliation : Project Directorate of Biological Control (ICAR)
Last First Middle	Bellary Road, H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961

Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-27)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Sirkali 15-03-2008 B. Ramanujam Karaikal, Pondicherry
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road, H. A. Farm Post, Bangalore-560024 15-03-2008 Soil from Sugarcane Fields
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects

IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana (PDBC-Bb-28)</i>
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Kothattai 15-03-2008 B. Ramanujam Karaikal, Pondicherry
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 15-03-2008 Soil from Rice Fallow fields
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days

Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-29)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Jorhat 18-03-2008 B. Ramanujam Jorhat, Assam

Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	18-03-2008
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Soil from Rice Fallow Fields
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

<p>Name of the Depositor</p> <p>Ramanujam Bonam</p> <p>Last First Middle</p>	<p>Designation : Principal Scientist</p> <p>Affiliation : Project Directorate of Biological Control (ICAR)</p> <p>Bellary Road , H. A. Farm Post, Bangalore-560024</p>
	<p>Phone : 080-23511998 ext. 343</p> <p>E mail : ramanujamb@rediffmail.com</p> <p>Fax No. : 080-23411961</p>
<p>Name of the microorganisms</p>	<p>Type of culture : Fungus</p> <p><i>Beauveria bassiana</i> (PDBC-Bb-30)</p>
<p>Details of source of culture</p> <p>Place of isolation (Habitat crop, plant or animals etc)</p> <p>Collection date</p> <p>Collected by</p> <p>District and state</p>	<p>Soil, Jorhat</p> <p>18-03-2008</p> <p>B. Ramanujam</p> <p>Jorhat, Assam</p>
<p>Details of isolation</p> <p>Isolation by (Person and address)</p> <p>Isolation date</p> <p>Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc</p>	<p>B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024</p> <p>18-03-2008</p> <p>Soil from Brinjal Fields</p>
<p>Growth and maintenance</p> <p>Medium of growth</p> <p>Medium for sporulation</p> <p>Optimum temperature for growth</p> <p>Incubation time</p> <p>Subculture period</p> <p>Special requirement for growth and sporulation, if any</p>	<p>Sabouraud Dextrose Yeast Agar medium (SDYA)</p> <p>Sabouraud Dextrose Yeast Agar medium</p> <p>25°C</p> <p>7-10 days</p> <p>Three months</p> <p>SDYA at 25°C and 80% RH</p>
<p>Identified by</p>	<p>B. Ramanujam</p>

Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Beauveria bassiana</i> (PDBC-Bb-31)	Type of culture : Fungus
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Namdeora 18-03-2008 B. Ramanujam Jorhat, Assam
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 18-03-2008

Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Soil from Rice Fallow Fields
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961

Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-32)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Soil, Jorhat
Collection date	19-03-2008
Collected by	B. Ramanujam
District and state	Jorhat, Assam
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	19-03-2008
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Soil from Pineapple Fields
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects

IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Beauveria bassiana</i> (PDBC-Bb-33)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Karnal 31-05-2008 B. Ramanujam Karnal, Haryana
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 31-05-2008 Soil (Sodic Soils, Fallow areas)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days

Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus
<i>Metarhizium anisopliae</i> (PDBC-Ma-1)	<i>Metarhizium anisopliae</i> (PDBC-Ma-1)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Soil , Chickaballapur
Collection date	2006
Collected by	B. Ramanujam
District and state	Bangalore, Karnataka

Details of isolation	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation by (Person and address)	2006
Isolation date	Soil from Tomato crop
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-2)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Davanagere 2006 B. Ramanujam Davanagere, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Larvae of <i>Amasacta albistriga</i> (Red Hairy Caterpillar)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-3)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Kasaragod 2006 B. Ramanujam Kasaragod, Kerala
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006

Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Grubs of <i>Oryctes rhinoceros</i> (Coconut Rhinoceros Beetle)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor	Designation : Principal Scientist
Ramanujam Bonam	Affiliation : Project Directorate of Biological Control (ICAR)
Last First Middle	Bellary Road, H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
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Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-4)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Puttur 2006 B. Ramanujam Dakshina Kannada, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Grubs of <i>Plocaederus ferrugineus</i> (Cashew Stem Borer)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects

IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343 E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Metarhizium anisopliae</i> (PDBC-Ma-5)	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-5)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Coimbatore 2006 B. Ramanujam Coimbatore, Tamil Nadu
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Grubs of <i>Holotrichia serrata</i> (Sugarcane root grub)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months

Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
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	Fax No. : 080-23411961
Name of the microorganisms <i>Metarhizium anisopliae</i> (PDBC-Ma-6)	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-6)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Hoskote 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024

Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Larvae of <i>Plutella xylostella</i> (Diamond Back Moth of Cauliflower)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor	Designation : Principal Scientist
Ramanujam Bonam	Affiliation : Project Directorate of Biological Control (ICAR)
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Name of the microorganisms	Type of culture : Fungus
<i>Metarhizium anisopliae</i> (PDBC-Ma-7)	<i>Metarhizium anisopliae</i> (PDBC-Ma-7)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Insect, Anand
Collection date	2006
Collected by	B. Ramanujam
District and state	Anand, Gujarat
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Grubs of <i>Odoiporus longicollis</i> (<i>Banana Pseudo Stem Weevil</i>)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	West India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects

IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-8)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Myladumpara 2006 B. Ramanujam Idukki, Kerala
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Grubs of <i>Basilepta fulvicorne</i> . (Root Grub of Cardamom)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25 ^o C 7-10 days

Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-9)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Insect, Chennai,
Collection date	2006
Collected by	B. Ramanujam
District and state	Chennai, Tamil Nadu

Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Grubs of <i>Oryctes rhinoceros</i> (Coconut Rhinoceros Beetle)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
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	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-10)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Adugudi 18-09-2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 18-09-2006 Larvae of <i>Chilo partellus</i> (Maize Stem Borer)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
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	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-11)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Guwahati 02-10-2006 B. Ramanujam Guwahati, Assam
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 02-10-2006

Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Larvae of <i>Agrotis ipsilon</i> (Potato Cut worm)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor	Designation : Principal Scientist
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	E mail : ramanujamb@rediffmail.com
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Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-13)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Soil, Bapatla
Collection date	05-12-2007
Collected by	B. Ramanujam
District and state	Ongole, Andhra Pradesh
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	05-12-2007
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Coconut
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil

Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
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	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-14, Ma-14a Ma-14b)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Jorhat 19-03-2008 B. Ramanujam Jorhat, Assam
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 19-03-2008 Soil from Tomato, Chillies and Cabbage crops
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months

Special requirement for growth and sporulation, if any	SDYA at 25 ^o C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
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	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-15)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil , Jorhat 20-03-2008 B. Ramanujam Bangalore, Karnataka
Details of isolation	

Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	20-03-2008
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Soil from Termite mounds from Tea Gardens
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
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	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Metarhizium anisopliae</i> (PDBC-Ma-16)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Kherdhar 26-03-2008 B. Ramanujam Solan, Himachal Pradesh
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 26-03-2008 Pupae of <i>Brahmina</i> sp. from Potato Fallow Fields
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	North India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI-1)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Hessaraghatta 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Aphids of Vegetable crops
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH

Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
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	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI-2c)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Abyala 2006 B. Ramanujam Coorg, Karnataka
Details of isolation	

Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Nymphs of <i>Coccus viridis</i> (Citrus Green Scale)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI-3f)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Suntikoppa 2006 B. Ramanujam Coorg, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Nymphs of <i>Coccus viridis</i> (Coffea Green Scale)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI- 4)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Coffee leaf rust infected lesions, Boikere 2006 B. Ramanujam Coorg, Karnataka
Details of isolation Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024

Isolation date	2006
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Rust Pustules of <i>Hemileia vastatrix</i> (Coffee Rust Fungus)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI-7)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Nelamangala 2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Nymphs of <i>Bemisia tabaci</i> (White flies of Vegetable Crops)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI- 8)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Soil, Chennai
Collection date	2006
Collected by	B. Ramanujam
District and state	Chennai, Tamil Nadu
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	2006

Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Soil from Rice Fallows
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI- 10)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	 Insect, Rajankunte 27-10-2006 B. Ramanujam Bangalore, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	 B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 27-10-2006 Nymphs of <i>Aphis craccivora</i>
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	 Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI- 13)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Soil, Trichy June, 2007 B. Ramanujam Trichy, Tamil Nadu
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 June, 2007

Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Soil from Banana crop
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI- 14)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Valparai 14-07-2008 B. Ramanujam Coimbatore, Tamil Nadu
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 14-07-2008 Tea Aphids (<i>Toxoptera aurantii</i>)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI-15)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Appangala 19-07-2008 B. Ramanujam Coorg, Karnataka
Details of isolation Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024

Isolation date	19-07-2008
Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Pepper Scale (<i>Lepidosaphes</i> sp.)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor	Designation : Principal Scientist
Ramanujam Bonam	Affiliation : Project Directorate of Biological Control (ICAR)
Last First Middle	Bellary Road, H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961

Name of the microorganisms	Type of culture : Fungus <i>Verticillium lecanii</i> (PDBC-VI- 16)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Insect, Chettalli
Collection date	18-07-2008
Collected by	B. Ramanujam
District and state	Coorg, Karnataka
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	18-07-2008
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Spiraling White Fly (<i>Aleurodicus dispersus.</i>)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects

IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor	Designation : Principal Scientist
Ramanujam Bonam	Affiliation : Project Directorate of Biological Control (ICAR)
Last First Middle	Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus
	<i>Verticillium lecanii</i> (PDBC-VI-17)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Insect, Chettalli
Collection date	18-07-2008
Collected by	B. Ramanujam
District and state	Coorg, Karnataka
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	18-07-2008
Specimen isolated from (eg. leaf stem, root , soil, egg mass, insect, etc	Coffee Mealy Bug (<i>Planococcus lilacinus</i>)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months

Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Nomuraea rileyi</i> (PDBC-Nr-1)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Kurnool 2006 B. Ramanujam Kurnool, Andhra Pradesh

Details of isolation	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation by (Person and address)	2006
Isolation date	Larvae of <i>Spodoptera litura</i> from Cotton Fields
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	Sabouraud Maltose Yeast Agar medium (SMYA)
Medium for sporulation	Sabouraud Maltose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SMYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
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	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Nomuraea rileyi</i> (PDBC-Nr-3)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Chinthamani 2006 B. Ramanujam Kolar, Karnataka
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Larvae of <i>Achaea janata</i> (Semi looper)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Maltose Yeast Agar medium (SMYA) Sabouraud Maltose Yeast Agar medium 25°C 7-10 days Three months SMYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
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	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Nomuraea rileyi</i> (PDBC-Nr-20)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Warangal 2006 B. Ramanujam Warangal, Andhra Pradesh
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006

Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Larvae of <i>Helicoverpa armigera</i> (Cotton Bollworm)
Growth and maintenance	
Medium of growth	Sabouraud Maltose Yeast Agar medium (SMYA)
Medium for sporulation	Sabouraud Maltose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SMYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Nomuraea rileyi</i> (PDBC-Nr-29)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Devanahalli 2006 B. Ramanujam Warangal, Andhra Pradesh
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 2006 Larvae of <i>Helicoverpa armigera</i> (Redgram Pod Borer)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Maltose Yeast Agar medium (SMYA) Sabouraud Maltose Yeast Agar medium 25°C 7-10 days Three months SMYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Nomuraea rileyi</i> (PDBC-Nr-44)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Jorhat 19-03-2008 B. Ramanujam Jorhat, Assam
Details of isolation Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024

Isolation date	19-03-2008
Specimen isolated from (eg. leaf) stem, roof, soil, egg mass, insect, etc	Larvae of <i>Pieris brassicae</i> (Cabbage Butterfly)
Growth and maintenance	
Medium of growth	Sabouraud Maltose Yeast Agar medium (SMYA)
Medium for sporulation	Sabouraud Maltose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SMYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor	Designation : Principal Scientist
Ramanujam Bonam	Affiliation : Project Directorate of Biological Control (ICAR)
Last First Middle	Bellary Road, H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961

Name of the microorganisms	Type of culture : Fungus <i>Fusarium pallidoroseum</i> (PDBC-Fp-2)
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Insect, Kothattai
Collection date	15-03-2008
Collected by	B. Ramanujam
District and state	Karaikal, Pondicherry
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	15-03-2008
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	Larvae of <i>Cnaphalocrosis medinalis</i> (Rice Leaf Folder)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects

IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
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	Phone : 080-23511998 ext. 343 E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Cladosporium oxysporum</i> , (PDBC-Co-1)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Jorhat 19-03-2008 B. Ramanujam Jorhat, Assam
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 19-03-2008 Nymphs of <i>Lipaphis erysimi</i> (Mustard aphid)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25 ^o C

Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Cladosporium oxysporum</i> , (PDBC-Co-2)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date	Insect , Allengmora

Collected by	19-03-2008
District and state	B. Ramanujam Jorhat, Assam
Details of isolation	
Isolation by (Person and address)	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	19-03-2008
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Brinjal sucking pest
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	North-East India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Paecilomyces</i> sp. (PDBC-P-1)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect, Kherdhar 26-03-2008 B. Ramanujam Solan, Himachal Pradesh
Details of isolation Isolation by (Person and address) Isolation date Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 26-03-2008 Grubs of <i>Brahmina</i> sp. from Potato fields (Potato root grub)
Growth and maintenance Medium of growth Medium for sporulation Optimum temperature for growth Incubation time Subculture period Special requirement for growth and sporulation, if any	Sabouraud Dextrose Yeast Agar medium (SDYA) Sabouraud Dextrose Yeast Agar medium 25°C 7-10 days Three months SDYA at 25°C and 80% RH
Identified by	B. Ramanujam

Geographical origin	North India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

Data base of PDBC accessions of microorganisms

Name of the Depositor Ramanujam Bonam Last First Middle	Designation : Principal Scientist
	Affiliation : Project Directorate of Biological Control (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 343
	E mail : ramanujamb@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Fungus <i>Paecilomyces variotii</i> (PDBC-Pv-1)
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Insect , Valparai 04-08-2008 B. Ramanujam Coimbatore, Tamil Nadu
Details of isolation Isolation by (Person and address) Isolation date	B. Ramanujam, PDBC, Bellary Road , H. A. Farm Post, Bangalore-560024 04-08-2008

Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	Nymphs of <i>Oligonychus coffeae</i> (Tea Red spider Mites)
Growth and maintenance	
Medium of growth	Sabouraud Dextrose Yeast Agar medium (SDYA)
Medium for sporulation	Sabouraud Dextrose Yeast Agar medium
Optimum temperature for growth	25°C
Incubation time	7-10 days
Subculture period	Three months
Special requirement for growth and sporulation, if any	SDYA at 25°C and 80% RH
Identified by	B. Ramanujam
Geographical origin	South India
A brief description or distinctive features of the microorganism	-
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Pathogenic to Insects
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	