

Database of NBAIR Accessions of Bacterial Biocontrol Agents

Name of the Depositor	Designation : Senior Scientist
Rajagopal Rangeshwaran	Affiliation : National Bureau of Agricultural Insect Resources ICAR)
Last First Middle	Bellary Road , H. A. Farm Post, Bengaluru-560024
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Pseudomonas fluorescens</i> (NBAIAB-2)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Tomato, Bangalore
Collection date	2001
Collected by	R. Rangeshwaran
District and state	Bangalore, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAIR, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Rhizosphere
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	R. Rangeshwaran
Geographical origin	South India

A brief description or distinctive features of the microorganism	Gram negative, short rods, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

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Name of the Depositor	Designation : Senior Scientist
Rajagopal Rangeshwaran	Affiliation : National Bureau of Agricultural Insect Resources (ICAR)
Last First Middle	Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Pseudomonas putida</i> (NBAIIB-19)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Pigeon Pea, Kolar
Collection date	2001
Collected by	R. Rangeshwaran
District and state	Kolar, Karnataka

Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAIR, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Rhizosphere
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	R. Rangeshwaran
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not deposited
Any other information	
Signature and date	

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	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Bacillus sp. (MTCC 6535)</i>	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Chickpea endophyte, Gulbarga
Collection date	2002
Collected by	R. Rangeshwaran
District and state	Gulbarga, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAIR, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf stem, root , soil, egg mass, insect, etc)	
Growth and maintenance	
Medium of growth	Tryptic Soya Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	IMTECH
Geographical origin	South India

A brief description or distinctive features of the microorganism	Gram positive, spore forming rods, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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	Phone : 080-23511998 ext. 356
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	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Bacillus megaterium.</i> (MTCC 6533)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Chickpea endophyte, Gulbarga
Collection date	2002
Collected by	R. Rangeswaran
District and state	Gulbarga, Karnataka

Details of isolation	
Isolation by (Person and address)	R. Rangeswaran, NBAIR, Bellary Road , H. A. Farm Post, Bangalore-560024
Specimen isolated from (eg. leaf stem, root , soil, egg mass, insect, etc)	Leaf tissue
Growth and maintenance	
Medium of growth	Tryptic Soya Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram positive, spore forming rods, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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Rajagopal Rangeswaran	Affiliation : National Bureau of Agricultural Insect Resources (ICAR)
Last First Middle	Bellary Road , H. A. Farm Post, Bangalore-560024
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	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Bacillus circulans</i> (MTCC 6534)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Chickpea endophyte, Bangalore
Collection date	2002
Collected by	R. Rangeswaran
District and state	Bangalore, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeswaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	Tryptic Soya Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	IMTECH
Geographical origin	South India

A brief description or distinctive features of the microorganism	Gram positive, spore forming rods, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Erwinia herbicola</i> (MTCC 6720)	Type of culture : Bacterium
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Chickpea endophyte, Bangalore 2002 R. Rangeshwaran Bangalore, Karnataka

Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAIL, Bellary Road , H. A. Farm Post, Bangalore-560024
Specimen isolated from (eg. leaf stem, root , soil, egg mass, insect, etc)	Leaf tissue
Growth and maintenance	
Medium of growth	Tryptic Soya Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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Last First Middle	
	Phone : 080-23511998 ext. 356
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	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Enterobacter agglomerans</i> (MTCC 6536)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Chickpea endophyte, Bangalore
Collection date	2002
Collected by	R. Rangeshwaran
District and state	Bangalore, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	Tryptic Soya Agar
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	

Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, slime producer, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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Name of the microorganisms	Type of culture : Bacterium
<i>Pseudomonas aeruginosa</i> (MTCC 7512)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Tomato rhizosphere, Kolar
Collection date	2004
Collected by	R. Rangeshwaran
District and state	Kolar, Karnataka

Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Specimen isolated from (eg. leaf stem, root , soil, egg mass, insect, etc)	Leaf tissue
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, pigment producer, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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Last First Middle	Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Yeast
<i>Cryptococcus albidus</i> (MTCC 7436)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Tomato Rhizosphere, Kolar
Collection date	2004
Collected by	R. Rangeswaran
District and state	Kolar, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeswaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	Tryptic Soya Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	

Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Yeast, spherical cells, slime producer, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Pseudomonas aeruginosa</i> (MTCC 7512)	Type of culture : Bacterium
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Chickpea endophyte, Bangalore 2002 R. Rangeshwaran Bangalore, Karnataka

Details of isolation	
Isolation by (Person and address)	R. Rangeswaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, pigment producer, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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Last Middle First	Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Pseudomonas fluorescens</i> (NBAIIAB7)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Sunflower, Davangere
Collection date	2004
Collected by	R. Rangeshwaran
District and state	Davangere, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs

Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	R. Rangeshwaran
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, pigment producer, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not Deposited
Any other information	
Signature and date	

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Name of the Depositor Rajagopal Rangeshwaran	Designation : Senior Scientist
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Last First Middle	
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Pseudomonas fluorescens</i> (NBAIIAB1)	Type of culture : Bacterium
Details of source of culture Place of isolation (Habitat crop, plant or animals etc)	Rice, Kottayam

Collection date	2002
Collected by	R. Rangeshwaran
District and state	Kottayam, Kerala
Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf stem, root , soil, egg mass, insect, etc)	
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	R. Rangeshwaran
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, pigment producer, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not Deposited
Any other information	
Signature and date	

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Last First Middle	Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Alcaligenes odorans</i> (NBAIIAB12)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Rice, Bangalore
Collection date	2003
Collected by	R. Rangeswaran
District and state	Bangalore, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeswaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	rhizosphere
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	King's B Agar
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	

Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram negative, short rods, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Bacillus pantothenicus</i> (NBAIIAB28)	Type of culture : Bacterium
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Leaf Vegetable, Bangalore 2003 R. Rangeshwaran Bangalore, Karnataka

Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAIL, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	IMTECH
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram positive, spore former, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Deposited at IMTECH, Chandigarh
Any other information	
Signature and date	

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	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Bacillus subtilis</i> (NBAIIN22)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Pigeon pea, Raichur
Collection date	2003
Collected by	R. Rangeshwaran
District and state	Raichur, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	King's B Agar
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	

Identified by	R. Rangeshwaran
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram positive, spore former, plant growth promoter a biocontrol agent against soil borne diseases
Any record on RFLP/RAPD pattern or unique markers	-
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> PGPR
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not Deposited
Any other information	
Signature and date	

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	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Bacillus thuringiensis</i> (NBAIIBT1)	Type of culture : Bacterium
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Bannerghatta Butterfly park, Bangalore 2006 R. Rangeshwaran Bangalore, Karnataka

Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	T3 medium
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	R. Rangeshwaran
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram positive, bipyramidal crystal producer, spore former, insect pathogen against lepidopterans
Any record on RFLP/RAPD pattern or unique markers	SDS PAGE of crystal protein
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical, toxicological, PCR
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Insect pathogen
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not Deposited
Any other information	
Signature and date	

Database of NBAII Accessions of Bacterial Biocontrol Agents

Name of the Depositor	Designation : Senior Scientist
Rajagopal Rangeswaran	Affiliation : National Bureau of Agricultural Insect Resources (ICAR)
Last First Middle	Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Bacillus thuringiensis</i> (NBAIIBT2)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Western Ghat, Shimoga
Collection date	2007
Collected by	R. Rangeswaran
District and state	Shimoga, Karnataka
Details of isolation	
Isolation by (Person and address)	R. Rangeswaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, root , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	T3 medium
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	

Identified by	R. Rangeshwaran
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram positive, bipyramidal crystal producer, spore former, insect pathogen against lepidopterans
Any record on RFLP/RAPD pattern or unique markers	SDS PAGE of crystal protein
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical, toxicological, PCR
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Insect pathogen
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not Deposited
Any other information	
Signature and date	

Database of NBAII Accessions of Bacterial Biocontrol Agents

Name of the Depositor Rajagopal Rangeshwaran	Designation : Senior Scientist
	Affiliation : National Bureau of Agricultural Insect Resources (ICAR) Bellary Road , H. A. Farm Post, Bangalore-560024
Last First Middle	
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms <i>Bacillus thuringiensis</i> (HD-1)	Type of culture : Bacterium
Details of source of culture Place of isolation (Habitat crop, plant or animals etc) Collection date Collected by District and state	Standard Isolate in collection of Dr. Bambavale, NCIPM 2007 R. Rangeshwaran

Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf) stem, roof , soil, egg mass, insect, etc	
Growth and maintenance	
Medium of growth	T3 medium
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	R. Rangeshwaran
Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram positive, bipyramidal crystal producer, spore former, insect pathogen against lepidopterans
Any record on RFLP/RAPD pattern or unique markers	SDS PAGE of crystal protein
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical, toxicological, PCR
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Insect pathogen
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not Deposited used only as standard strain for research purpose
Any other information	
Signature and date	

Database of NBAII Accessions of Bacterial Biocontrol Agents

Name of the Depositor	Designation : Senior Scientist
Rajagopal Rangeshwaran	Affiliation : National Bureau of Agricultural Insect Resources (ICAR)
Last First Middle	Bellary Road , H. A. Farm Post, Bangalore-560024
	Phone : 080-23511998 ext. 356
	E mail : rangeshw@rediffmail.com
	Fax No. : 080-23411961
Name of the microorganisms	Type of culture : Bacterium
<i>Bacillus thuringiensis</i> (BNGT1)	
Details of source of culture	
Place of isolation (Habitat crop, plant or animals etc)	Butterfly Park, Bannerghatta.
Collection date	2007
Collected by	R. Rangeshwaran
District and state	Bannerghatta, Bangalore
Details of isolation	
Isolation by (Person and address)	R. Rangeshwaran, NBAII, Bellary Road , H. A. Farm Post, Bangalore-560024
Isolation date	Leaf tissue
Specimen isolated from (eg. leaf stem, roof , soil, egg mass, insect, etc)	
Growth and maintenance	
Medium of growth	T3 medium
Medium for sporulation	
Optimum temperature for growth	28°C
Incubation time	48-72hrs
Subculture period	Two months
Special requirement for growth and sporulation, if any	
Identified by	R. Rangeshwaran

Geographical origin	South India
A brief description or distinctive features of the microorganism	Gram positive, rectangular crystal producer, spore former, insect pathogen against lepidopterans
Any record on RFLP/RAPD pattern or unique markers	SDS PAGE of crystal protein
Whether deposited microorganism is	<input type="checkbox"/> Agriculturally important
Taxonomic data	<input type="checkbox"/> Morphological, biochemical, toxicological, PCR
Microorganism is deposited in	<input type="checkbox"/> In slants
Nature	<input type="checkbox"/> Insect pathogen
IPR/paten information, if any	Nil
Provide accession number, if deposited elsewhere	Not Deposited used only as standard strain for research purpose
Any other information	
Signature and date	