

Appendix

APPENDIX-I

Ampicillin stock solution (50 mg/ml)

Dissolved 2.5 g of ampicillin sodium salt in 50 ml of deionized water. Filter sterilized and stored in aliquots at -20 °C.

X-Gal stock solution (20 mg/ml)

200 mg X-Gal (5-bromo-4-chloro-3-indolyl- β -Dgalactopyranoside) dissolve in 10 ml N,N'-dimethylformamide. Cover with aluminum foil and store at -20 °C in a dark..

IPTG stock solution (100 mM)

1.2 g IPTG

Add deionized water to 50 ml final volume. Filter sterilize and store at 4°C.

LB-ampicillin X-Gal/IPTG plates

- Prepare LB-agar medium (1 liter), weigh out:

Bacto-tryptone	10 g
Bacto-yeast extract	5 g
NaCl	5 g

Dissolved in 800 ml water, adjust pH to 7.0 with NaOH and adjust the volume with water to 1000 ml. Add 15 g of agar and autoclave at 121 °C.

- Before pouring the plates, allow the medium to cool to 55 °C. Then, add 1 ml of ampicillin stock solution (50 mg/ml) to a final concentration of 50 μ g/ml. Mixed gently and pour the plates. Allowed the LB-ampicillin agar medium to solidify. Dry plates opened at room temperature under UV light for 30 min.
- Add 40 μ l of X-Gal stock solution (20 mg/ml) and 40 μ l of IPTG 100 Mm, spread evenly with a sterile spatula.

Genomic DNA Extraction buffer

Sodium acetate	100 mM
Na ₂ EDTA	50 mM
NaCl	500 mM
SDS	1%

TBE Buffer (5x)

Tris base	54 g/l
Boric acid	27.5 g/l
0.5 M EDTA (pH 8)	20 ml/l

Plasmid extraction solution I (10X)

Tris-HCl	25 mM (pH 8.0)
Glucose	50 mM
Na ₂ EDTA	10mM

Plasmid extraction solution II

NaOH	5M
SDS	10%

Plasmid extraction solution III

5.0 M Potassium acetate (pH 4.5)

Agarose gel loading dye (6X)

Bromophenol blue	0.25%
Xylene cyanol FF	0.25%
Sucrose in water	40.0%

TE buffer 10X

Tris-HCl	0.1 M (pH 8)
Na ₂ EDTA	10 M (pH 8)

APPENDIX-II

Pantoea cyripedii strain PSB-3 16S ribosomal RNA gene, partial sequence

LOCUS JX556216 1399 bp DNA linear BCT 07-NOV-2012
DEFINITION *Pantoea cyripedii* strain PSB-3 16S ribosomal RNA gene, partial
sequence.
ACCESSION JX556216
VERSION JX556216.1 GI:410517334
KEYWORDS .
SOURCE *Pantoea cyripedii*
ORGANISM [Pantoea cyripedii](#)
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; *Pantoea*.
REFERENCE 1 (bases 1 to 1399)
AUTHORS Reddy,S.M. and Kaur,G.
TITLE Phosphate solubilizing rhizobacteria from organic farm and their
influence on the growth and yield of maize (*Zea mays* L.)
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1399)
AUTHORS Reddy,S.M. and Kaur,G.
TITLE Direct Submission
JOURNAL Submitted (29-AUG-2012) Department of Biotechnology, Thapar
University, Bhadson Road, Patiala, Punjab 147004, India
COMMENT ##Assembly-Data-START##
Sequencing Technology :: Sanger dideoxy sequencing
##Assembly-Data-END##
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1321 catgaagtcg gaatcgctag taatcgtaga tcagaatgct acggtgaata cgttccccggg
1381 ccttgaacac accgccgtg

Pseudomonas putida strain PSB-5 16S ribosomal RNA gene, partial sequence

LOCUS JX556217 1394 bp DNA linear BCT 07-NOV-2012
DEFINITION *Pseudomonas putida* strain PSB-5 16S ribosomal RNA gene, partial
sequence.
ACCESSION JX556217
VERSION JX556217.1 GI:410517335
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ORGANISM [Pseudomonas putida](#)
Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
Pseudomonadaceae; *Pseudomonas*.
REFERENCE 1 (bases 1 to 1394)
AUTHORS Reddy,S.M. and Kaur,G.
TITLE Phosphate solubilizing rhizobacteria from organic farm and their
influence on the growth and yield of maize (*Zea mays* L.)
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1394)
AUTHORS Reddy,S.M. and Kaur,G.
TITLE Direct Submission
JOURNAL Submitted (29-AUG-2012) Department of Biotechnology, Thapar
University, Bhadson Road, Patiala, Punjab 147004, India
COMMENT ##Assembly-Data-START##
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1381 aacacaccgc ccgt

Aspergillus tubingensis strain PSF-4 18S ribosomal RNA gene, partial sequence

LOCUS *Aspergillus_tubingensis*PSF-4 599 bp rRNA linear PLN 04-FEB-2014
DEFINITION *Aspergillus tubingensis*.
ACCESSION KJ410674
VERSION
KEYWORDS .
SOURCE *Aspergillus tubingensis*
ORGANISM *Aspergillus tubingensis*
Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina;
Eurotiomycetes; Eurotiomycetidae; Eurotiales; Aspergillaceae;
Aspergillus.
REFERENCE 1 (bases 1 to 599)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Phosphate solubilizing fungi isolated from organic farming
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 599)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Direct Submission
JOURNAL Submitted (04-FEB-2014) Department of Biotechnology, Thapar
University, Bhadson Road, Patiala, Punjab 147004, India
COMMENT Bankit Comment: BankIt1696978.
Bankit Comment: LocalID:*Aspergillus_tubingensis*PSF-4.

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gene, partial sequence; internal transcribed spacer 1,
5.8S ribosomal RNA gene, and internal transcribed spacer
2, complete sequence; and 28S ribosomal RNA gene, partial
sequence."
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Aspergillus niger strain PSF-5 18S ribosomal RNA gene, partial sequence

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DEFINITION Aspergillus niger.
ACCESSION KJ410675
VERSION
KEYWORDS .
SOURCE Aspergillus niger
ORGANISM Aspergillus niger
Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina;
Eurotiomycetes; Eurotiomycetidae; Eurotiales; Aspergillaceae;
Aspergillus.
REFERENCE 1 (bases 1 to 600)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Phosphate solubilizing fungi isolated from organic farming
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 600)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Direct Submission
JOURNAL Submitted (04-FEB-2014) Department of Biotechnology, Thapar
University, Bhadson Road, Patiala, Punjab 147004, India
COMMENT Bankit Comment: LocalID:Aspergillus_nigerPSF-5.
Bankit Comment: BankIt1697000.

##Assembly-Data-START##
Sequencing Technology :: Sanger dideoxy sequencing
##Assembly-Data-END##

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ribosomal RNA gene, and internal transcribed spacer 2,
complete sequence; and 28S ribosomal RNA gene, partial
sequence."

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Aspergillus niger strain PSF-6 18S ribosomal RNA gene, partial sequence

LOCUS Aspergillus_nigerPSF-6 601 bp rRNA linear PLN 04-FEB-2014
DEFINITION Aspergillus niger.
ACCESSION KJ410676
VERSION
KEYWORDS .
SOURCE Aspergillus niger
ORGANISM Aspergillus niger
Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina;
Eurotiomycetes; Eurotiomycetidae; Eurotiales; Aspergillaceae;
Aspergillus.
REFERENCE 1 (bases 1 to 601)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Phosphate solubilizing fungi isolated from organic farming
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 601)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Direct Submission
JOURNAL Submitted (04-FEB-2014) Department of Biotechnology, Thapar
University, Bhadson Road, Patiala, Punjab 147004, India
COMMENT Bankit Comment: LocalID:Aspergillus_nigerPSF-6.
Bankit Comment: BankIt1697000.

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Sequencing Technology :: Sanger dideoxy sequencing
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ribosomal RNA gene, and internal transcribed spacer 2,
complete sequence; and 28S ribosomal RNA gene, partial
sequence."

BASE COUNT 135 a 175 c 177 g 114 t

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Aspergillus niger strain PSF-7 18S ribosomal RNA gene, partial sequence

LOCUS Aspergillus_nigerPSF-7 600 bp rRNA linear PLN 04-FEB-2014
DEFINITION Aspergillus niger.
ACCESSION KJ410677
VERSION
KEYWORDS .
SOURCE Aspergillus niger
ORGANISM Aspergillus niger
Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina;
Eurotiomycetes; Eurotiomycetidae; Eurotiales; Aspergillaceae;
Aspergillus.
REFERENCE 1 (bases 1 to 600)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Phosphate solubilizing fungi isolated from organic farming
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 600)
AUTHORS Kaur,G. and Reddy,M.S.
TITLE Direct Submission
JOURNAL Submitted (04-FEB-2014) Department of Biotechnology, Thapar
University, Bhadson Road, Patiala, Punjab 147004, India
COMMENT Bankit Comment: LocalID:Aspergillus_nigerPSF-7.
Bankit Comment: BankIt1697000.

##Assembly-Data-START##
Sequencing Technology :: Sanger dideoxy sequencing
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partial sequence; internal transcribed spacer 1, 5.8S
ribosomal RNA gene, and internal transcribed spacer 2,
complete sequence; and 28S ribosomal RNA gene, partial
sequence."
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