

Supporting information

Isolation of a *Bacillus aryabhatai* strain for the resolution of (R, S)-ethyl indoline-2-carboxylate to produce (S)-indoline-2-carboxylic acid

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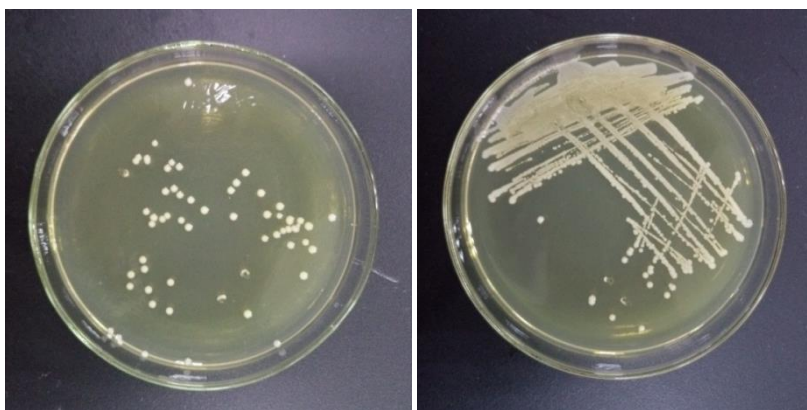


Figure S1. Colony morphology of Strain C26-1. The colonies were large, white, and nearly round, with a dry, opaque surfaces, and clear boundaries.



Figure S2. The gram staining pattern of the strain. The cells observed with an optical microscope, they are the group as Gram-positive bacteria.

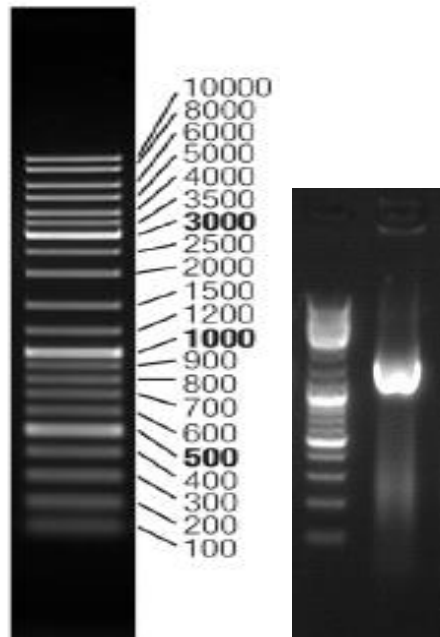


Figure S3. 16S rDNA sequence agarose gel electrophoresis. The strip size is approximately 1500 bp

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GGCTAGCTCCTTACGGTACTCCACCGACTTCGGGTGTTACAACTCTCGTGGTGTGA
CGGGCGGTGTGTACAAGGCCCGGAACGTATTCACCGCGGCATGCTGATCCGCGATT
ACTAGCGATTCCAGCTTCATGTAGGCGAGTTGCAGCCTACAATCCGAACTGAGAATG
GTTTTATGGGATTGGCTTGACCTCGCGGTCTTGACGCCCTTTGTACCATCCATTGTAGC
ACGTGTGTAGCCCAGGTCATAAGGGGCATGATGATTGACGTCATCCCCACCTTCCTC
CGTTTTGTCACCGGCAGTCACCTTAGAGTGCCCAACTAAATGCTGGCAACTAAGATC
AAGGGTTGCGCTCGTTGCGGGACTTAACCCAACATCTCACGACACGAGCTGACGACA
ACCATGCACCACCTGTCACTCTGTCCCCGAAGGGGAACGCTCTATCTCTAGAGTTGT
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TTAAGAAACCGCCTGCGCGCGCTTTACGCCCAATAATTCCGGATAACGCTTGCCACCT
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GAAAGCCTTCATCACTCACGCGGCGTTGCTCCGTCAGACTTTCGTCCATTGCGGAAGA
TTCCCTACTGCTGCCTCCCGTAGGAGTCTGGGCGGTGTCTCAGTCCCAGTGTGGCCGA
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CCATGAAGGAGAAGATCCTATCCGGTATTAGCTTCGGTTTCCCGAAGTTATCCCAGTC
TTACAGGCAGGTTGCCACGTGTTACTACCCGTCGCGCGCTAACGTCATAGAAGCA
AGCTTCTAATCAGTTGCTCGACTTGCATGTATTAGGCACGCCGCCAGCGTTCATCCT
GAGCCAGGATTCAAAACTCTAA

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Figure S4. 16S rDNA of strain *Bacillus aryabhatai* was sequenced and the total length was 1470 bp.

Table S1. Strain C26-1 on Biolog GEN III plates: Its utilization of 71 carbon sources and sensitivity to 23 chemicals.

Substrate	Result	Substrate	Result	Substrate	Result
Negative Control	–	D-Glucose-6-PO ₄	+	γ -Amino-Butyric Acid	+
extrin	+	D-Fructose-6-PO ₄	+	α -Hydroxy-Butyric Acid	+
D-Maltose	–	D-Aspartic Acid	-	β -Hydroxy-D,L Butyric Acid	+
D-Trehalose	+	D-Serine	+	α -Keto-Butyric Acid	+
D-Cellobiose	+	Gelatin	-	Acetoacetic Acid	+
Gentiobiose	+	Glycyl-L-Prolin	+	Propionic Acid	-
Sucrose	+	L-Alanine	+	Acetic Acid	-
D-Turanose	+	L-Arginine	+	Formic Acid	-
Stachyose	+	L-Aspartic	+	Positive Control	+
D-Raffinose	+	L-Glutamic Acid	+	pH 6	+
α -D-Lactose	+	L-Histidine	+	pH 5	+
D-Melibiose	+	L-Pyroglutamic Acid	-	1% NaCl	+
β -Methyl-D-Glucoside	+	L-Serine	+	4% NaCl	+
D-Salicin	+	Pectin	-	8% NaCl	+
N-Acetyl-D-Glucosamine	+	D-Galacturonic Acid	+	1% Sodium Lactate	+
N-Acetyl- β -D-Mannosamine	+	L-Galactonic Acid Lactone	+	Fusidic Acid	+
N-Acetyl-D-Galactosamine	+	D-Gluconic Acid	-	D-Serine	+
N-Acetyl Neuraminic Acid	+	D-Glucuronic Acid	-	Troleandomycin	+
α -D-Glucose	+	Glucuronamide	-	Rifamycin SV	+
D-Mannose	+	Mucic Acid	-	Minocycline	+

D-Fructose	+	Quinic Acid	+	Lincomycin	-
D-Galactose	+	D-Saccharic Acid	+	Guanidine HCl	+
3-Methyl Glucose	+	p-Hydroxy- Phenylacetic Acid	+	Niaproof 4	+
D-Fucose	+	Methyl Pyruvate	+	Vancomycin	+
L-Fucose	-	D-Lactic Acid Methyl Ester	+	Tetrazolium Violet	+
L-Rhamnose	-	L-Lactic Acid	-	Tetrazolium Blue	+
Inosine	-	Citric Acid	+	Nalidixic Acid	+
D-Sorbitol	+	α -Keto-Glutaric Acid	-	Lithium Chloride	+
D-Mannitol	+	D-Malic Acid	-	Potassium Tellurite	+
D-Arabitol	+	L-Malic Acid	-	Aztreonam	+
myo-Inositol	+	Bromo-Succinic Acid	+	Sodium Butyrate	+
Glycerol	+	Tween 40	+	Sodium Bromate	+
