

CULTURE PROFILE

Stenotrophomonas acidaminiphila

First described 2002 · Biosafety risk group 1 · NCBI TaxID 128780 · 181 evidence sentences · 59 sources

cellular organisms; Bacteria; Pseudomonadati; Pseudomonadota; Gammaproteobacteria; Lysobacterales; Lysobacteraceae; Stenotrophomonas

UNREVIEWED — not verified by a microbiologist

At a glance

1	Media used	Basal salts / minimal medium; Luria-Bertani (LB); Tryptic soy broth (TSB); Tryptic soy agar (TSA); +1 more	moderate
2	Optimum temperature for growth	55–75 °C	moderate
3	Time required to grow	5 d	moderate
4	Colony morphology	The colonies of strain BJ1 on LB plate were round with edge neat, uplifted surface, opaque and yellow in colour.	low
5	Gram character	Gram-negative	high
6	Biochemical tests for identification	16S rRNA gene sequencing; Whole-genome sequencing / ANI — reported positive; MALDI-TOF MS; Indole; +10 more	high

1 Media used

moderate confidence

- Basal salts / minimal medium
Moderate · score 9.96 · 6 sources
- Luria-Bertani (LB)
Moderate · score 7.64 · 3 sources
- Tryptic soy broth (TSB)
Low · score 2.79 · 2 sources
- Tryptic soy agar (TSA)
Low · score 0.93 · 1 source
- Nutrient broth
Low · score 0.81 · 1 source

2 Optimum temperature for growth

moderate confidence

55–75 °C

Moderate · score 7.14 · 2 sources

37.2 °C

Moderate · score 5.59 · 2 sources

55–65 °C

Moderate · score 4.91 · 2 sources

30 °C

Low · score 4.25 · 4 sources

Sources disagree: "55–75 °C" (score 7.14) versus "37.2 °C" (score 5.59). Both are shown; a reviewer should decide.

3 Time required to grow

moderate confidence

5 d

Moderate · score 8.18 · 4 sources

48 h

Moderate · score 6.34 · 3 sources

36 h

Low · score 3.19 · 4 sources

7 d

Low · score 2.67 · 3 sources

Sources disagree: "5 d" (score 8.18) versus "48 h" (score 6.34). Both are shown; a reviewer should decide.

4 Colony morphology

low confidence

The colonies of strain BJ1 on LB plate were round with edge neat, uplifted surface, opaque and yellow in colour.

Low · score 0.95 · 1 source

For example, in the dilution of 10^{-6} , 65 to 57 colony forming units (CFUs) were observed in the entire sample, equivalent to 1.2×10^8 bacteria per gram of the soil.

Low · score 0.95 · 1 source

5 Gram character

high confidence

Gram-negative

High · score 40.55 · 8 sources

Gram-positive

Low · score 4.12 · 4 sources

6 Biochemical tests for identification

high confidence

- **16S rRNA gene sequencing**
High · score 32.62 · 7 sources
- **Whole-genome sequencing / ANI — reported positive**
High · score 10.1 · 3 sources
- **MALDI-TOF MS**
Moderate · score 6.54 · 3 sources
- **Indole**
Moderate · score 5.28 · 4 sources
- **Motility — reported negative**
Moderate · score 5.11 · 4 sources
- **Short-chain fatty acid profile (GLC)**
Low · score 2.43 · 3 sources
- **Cellulose (CMC) hydrolysis**
Low · score 2.41 · 1 source
- **Antibiotic susceptibility profile**
Low · score 1.66 · 2 sources
- **Spore formation / stain — reported negative**
Low · score 1.62 · 2 sources
- **Catalase — reported positive**
Low · score 0.81 · 1 source
- **Citrate utilisation — reported positive**
Low · score 0.81 · 1 source
- **Urease — reported negative**
Low · score 0.81 · 1 source

7 References

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How these values were derived

Each candidate value was scored as the sum, over every supporting sentence, of the source tier weight multiplied by how squarely the sentence asserts the value and by a recency factor. Culture collections and nomenclatural authorities carry weight 5.0, peer-reviewed literature 3.0, preprints 1.5, and encyclopedic sources 1.0. Confidence is reported as high only where a curated source and at least two independent sources agree. Where a runner-up scored above 60 per cent of the leader, both are shown and the field is flagged as a conflict rather than resolved automatically.

This report aggregates published evidence; it does not replace Bergey's Manual, the Manual of Clinical Microbiology, or the product sheet supplied with the strain. Every field is unreviewed until a microbiologist signs it off.