

CULTURE PROFILE

Streptococcus agalactiae

First described 1896 · Biosafety risk group 2 · NCBI TaxID 1311 · 249 evidence sentences · 72 sources

cellular organisms; Bacteria; Bacillati; Bacillota; Bacilli; Lactobacillales; Streptococcaceae; Streptococcus

UNREVIEWED — not verified by a microbiologist

At a glance

1	Media used	Blood agar; Todd-Hewitt broth; Lim broth; Tryptic soy agar (TSA); +7 more	high
2	Optimum temperature for growth	20 °C	low
3	Time required to grow	0-7 d	high
4	Colony morphology	In cases where suspicious colonies with beta-hemolysis were observed, bacterial identification was performed using MALDI-TOF mass spectrometry (Bruker).	low
5	Gram character	Gram-positive (coccus)	high
6	Biochemical tests for identification	MALDI-TOF MS; CAMP test; Capsule / quellung; 16S rRNA gene sequencing; +10 more	high

1 Media used

high confidence

- Blood agar
High · score 16.24 · 7 sources
- Todd-Hewitt broth
High · score 13.98 · 6 sources
- Lim broth
High · score 12.75 · 3 sources
- Tryptic soy agar (TSA)
High · score 12.27 · 3 sources
- Tryptic soy broth (TSB)
Moderate · score 7.59 · 4 sources
- Brain heart infusion (BHI)
Moderate · score 6.95 · 2 sources
- Columbia CNA agar
Low · score 3.69 · 2 sources
- Granada medium
Low · score 2.89 · 3 sources
- Nutrient broth
Low · score 2.07 · 1 source
- Thioglycollate broth
Low · score 2.07 · 1 source
- Chromogenic UTI / Orientation
Low · score 0.78 · 1 source

2 Optimum temperature for growth

low confidence

20 °C

Low · score 3.11 · 1 source

25 °C

Low · score 3.11 · 1 source

2 °C

Low · score 3.11 · 1 source

8 °C

Low · score 3.11 · 1 source

Sources disagree: "20 °C" (score 3.11) versus "25 °C" (score 3.11). Both are shown; a reviewer should decide.

3 Time required to grow

high confidence

0-7 d

High · score 50.36 · 7 sources

1-6 d

High · score 44.05 · 7 sources

24-48 h

High · score 31.74 · 7 sources

12-24 h

High · score 20.5 · 6 sources

Sources disagree: "0-7 d" (score 50.36) versus "1-6 d" (score 44.05). Both are shown; a reviewer should decide.

4 Colony morphology

low confidence

In cases where suspicious colonies with beta-hemolysis were observed, bacterial identification was performed using MALDI-TOF mass spectrometry (Bruker).

Low · score 1.09 · 1 source

Under anaerobic conditions, colonies were larger, hemolysis was more pronounced, and overall sensitivity was higher.

Low · score 1.09 · 1 source

Transparent colonies predominate in the parent GBS, with occasional colonies having opaque portions.

Low · score 0.76 · 1 source

Scanning and transmission electron microscopy demonstrated that colony opacity correlated with bacterial aggregation status, with opaque variants forming longer and more organized chains.

Low · score 0.76 · 1 source

5 Gram character

high confidence

Gram-positive (coccus)

High · score 45.49 · 10 sources

Gram-negative

Moderate · score 9.71 · 5 sources

6 Biochemical tests for identification

high confidence

- **MALDI-TOF MS**

High · score 22.54 · 8 sources

- **CAMP test**

High · score 17.6 · 5 sources

- **Capsule / quellung**

High · score 13.42 · 7 sources

- **16S rRNA gene sequencing**
High · score 13.1 · 6 sources
- **Haemolysis pattern — reported negative**
High · score 12.65 · 6 sources
- **Pigment production**
Moderate · score 8.96 · 4 sources
- **Antibiotic susceptibility profile**
Moderate · score 8.12 · 3 sources
- **VITEK 2**
Moderate · score 6.1 · 3 sources
- **DNase — reported negative**
Low · score 3.6 · 2 sources
- **Whole-genome sequencing / ANI**
Low · score 2.44 · 2 sources
- **Aerotolerance test — reported positive**
Low · score 2.38 · 2 sources
- **Coagulase — reported negative**
Low · score 2.07 · 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.