

CULTURE PROFILE

Staphylococcys aureus

31 evidence sentences · 12 sources

UNREVIEWED — not verified by a microbiologist

At a glance

1	Media used	Brain heart infusion (BHI); Todd-Hewitt broth	low
2	Optimum temperature for growth	No evidence retrieved	none
3	Time required to grow	90 d	low
4	Colony morphology	Organoleptic characteristics (appearance, color, odor, taste), physicochemical properties (pH, density, consistency, rheological, abrasiveness, weight loss, and surface roughness) and antimicrobial...	low
5	Gram character	Gram-negative	low
6	Biochemical tests for identification	Catalase	low

1 Media used

low confidence

- Brain heart infusion (BHI)
Low · score 5.07 · 1 source
- Todd-Hewitt broth
Low · score 0.65 · 1 source

2 Optimum temperature for growth

no evidence

No sentence in the retrieved literature supported this field. Nothing is asserted here.

3 Time required to grow

low confidence

90 d

Low · score 2.33 · 1 source

6 wk

Low · score 1.55 · 1 source

1 wk

Low · score 1.45 · 1 source

2-3 d

Low · score 0.78 · 1 source

Sources disagree: "90 d" (score 2.33) versus "6 wk" (score 1.55). Both are shown; a reviewer should decide.

4 Colony morphology

low confidence

Organoleptic characteristics (appearance, color, odor, taste), physicochemical properties (pH, density, consistency, rheological, abrasiveness, weight loss, and surface roughness) and antimicrobial (Hole-Plate Diffusion-HPD)/anti-biofilm (Colony Forming

Units-CFU) action against *Staphylococcus aureus*, *Streptococcus mutans*, and *Candida albicans* were evaluated.

Low · score 1.09 · 1 source

Organoleptic characteristics (appearance, color, odor, taste), physicochemical properties (pH, density, consistency, rheological, abrasiveness, weight loss, and surface roughness) and antimicrobial (Hole-Plate Diffusion-HPD)/anti-biofilm (Colony Forming Units-CFU) action against *Staphylococcus aureus*, *Streptococcus mutans*, and *Candida albicans* were evaluated.

Low · score 1.09 · 1 source

5 Gram character

low confidence

Gram-negative

Low · score 4.48 · 3 sources

Gram-positive

Low · score 3.97 · 3 sources

Sources disagree: "Gram-negative" (score 4.48) versus "Gram-positive" (score 3.97). Both are shown; a reviewer should decide.

6 Biochemical tests for identification

low confidence

• Catalase

Low · score 2.43 · 3 sources

7 References

1. Clodronate Liposomes Untangle the Role of Hemocytes in *Apis mellifera* Response to Temperature Variation and Microbial Infection 2026
PMC12900532 · via PubMed Central (open access) · supported: Gram character
2. Clodronate Liposomes Untangle the Role of Hemocytes in *Apis mellifera*; Response to Temperature Variation and Microbial Infection. 2026
MED:41505358 doi:10.1159/000550255 · via Europe PMC · supported: Gram character
3. Effects of cosmetic ingredients on growth and virulence factor expression in *Staphylococcus aureus*: a comparison between culture medium and *in vitro* skin model medium 2024
doi:10.3934/microbiol.2025002 · via Crossref · supported: Media used
4. Surgical management of chronic osteomyelitis: Organisms, recurrence and treatment outcome 2023
PMC10388580 · via PubMed Central (open access) · supported: Time required to grow
5. Effectiveness of Oil-Based Denture Dentifrices-Organoleptic Characteristics, Physicochemical Properties and Antimicrobial Action 2021
PMC8300610 · via PubMed Central (open access) · supported: Time required to grow
6. Effectiveness of Oil-Based Denture Dentifrices-Organoleptic Characteristics, Physicochemical Properties and Antimicrobial Action. 2021
MED:34356734 doi:10.3390/antibiotics10070813 · via Europe PMC · supported: Colony morphology
7. Antimicrobial resistance genes in raw milk for human consumption 2020
PMC7198526 · via PubMed Central (open access) · supported: Gram character
8. Detection of antibacterial activities of Miswak, Kalonji and Aloe vera against oral pathogens & anti-proliferative activity against cancer cell line 2017
PMC5433005 · via PubMed Central (open access) · supported: Biochemical tests for identification, Time required to grow
9. Detection of antibacterial activities of Miswak, Kalonji and Aloe vera against oral pathogens & anti-proliferative activity against cancer cell line. 2017
MED:28506259 doi:10.1186/s12906-017-1778-0 · via Europe PMC · supported: Biochemical tests for identification
10. E5531, a synthetic non-toxic lipid A derivative blocks the immunobiological activities of lipopolysaccharide 1999
https://openalex.org/W1965417417 · via OpenAlex · supported: Gram character, Time required to grow
11. Bacteriophage typing of *Staphylococcus aureus* 1952
https://openalex.org/W2125676272 · via OpenAlex · supported: Media used
12. Fig. 2. Growth curve of a bacterial culture K2-2 in a liquid VD medium with sodium acetate and without an organic substrate for 2.5 days. OD - optical density culture
doi:10.17816/ecogen50901-37212 · via Crossref · supported: Time required to grow

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.