

CULTURE PROFILE

Staphylococcus argensis

First described 2015 · NCBI TaxID 1607738 · 47 evidence sentences · 15 sources

cellular organisms; Bacteria; Bacillati; Bacillota; Bacilli; Caryophanales; Staphylococcaceae; Staphylococcus

UNREVIEWED — not verified by a microbiologist

At a glance

1	Media used	Brain heart infusion (BHI)	low
2	Optimum temperature for growth	No evidence retrieved	none
3	Time required to grow	24 h	low
4	Colony morphology	No evidence retrieved	none
5	Gram character	Gram-positive (coccus)	high
6	Biochemical tests for identification	Coagulase — reported negative; MALDI-TOF MS; Novobiocin susceptibility — reported negative; Menaquinone / respiratory quinone; +10 more	high

1 Media used

low confidence

• Brain heart infusion (BHI)

Low · score 2.79 · 1 source

"Here, we reconstituted a skin model using keratin as a base (instead of callus) and compared it with brain heart infusion (BHI) medium."

Effects of cosmetic ingredients on growth and virulence factor expression in <i>Staphylococcus aureus</i> — Crossref, 2024

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

24 h

Low · score 1.4 · 1 source

"Plates were kept at 9 °C in an incubator for 24 h."

Control of stripe rust of wheat using indigenous endophytic bacteria at seedling and adul... — PubMed Central (open access), 2021

5 d

Low · score 0.61 · 1 source

"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."

Fig. 2. Growth curve of a bacterial culture K2-2 in a liquid VD medium with sodium acetat... — Crossref

4 Colony morphology

no evidence

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

5 Gram character

high confidence

Gram-positive (coccus)

High · score 11.29 · 4 sources

"The strains were non-spore-forming, non-motile Gram-positive cocci, facultative anaerobes."

Streptococcus sciuri sp. nov., Staphylococcus marylandisciuri sp. nov. and Staphylococcus... — PubMed (NCBI E-utilities), 2023

"The strains were non-spore-forming, non-motile Gram-positive cocci, facultative anaerobes."

Streptococcus sciuri sp. nov., Staphylococcus marylandisciuri sp. nov. and Staphylococcus... — PubMed (NCBI E-utilities), 2023

"Most studies concerning the peptidoglycan hydrolases present in Gram-positive bacteria have focused on clinically relevant Staphylococcus aureus or the model organism Bacillus subtilis, while knowledge relating to other species remains limited."

Two New M23 Peptidoglycan Hydrolases With Distinct Net Charge. — Europe PMC, 2021

6 Biochemical tests for identification

high confidence

Coagulase — reported negative

High · score 18.63 · 4 sources

"A staphylocoagulase-negative, novobiocin-susceptible strain (M4S-6T) of a species of the genus Staphylococcus was isolated from the river Argen in Southern Germany."

Staphylococcus argensis sp. nov., a novel staphylococcal species isolated from an aquatic... — PubMed (NCBI E-utilities), 2015

MALDI-TOF MS

Moderate · score 5.91 · 3 sources

"MALDI-TOF mass spectrometry supported identification of these novel species."

Streptococcus sciuri sp. nov., Staphylococcus marylandisciuri sp. nov. and Staphylococcus... — PubMed (NCBI E-utilities), 2023

Novobiocin susceptibility — reported negative

Low · score 3.6 · 2 sources

"A staphylocoagulase-negative, novobiocin-susceptible strain (M4S-6T) of a species of the genus Staphylococcus was isolated from the river Argen in Southern Germany."

Staphylococcus argensis sp. nov., a novel staphylococcal species isolated from an aquatic... — PubMed (NCBI E-utilities), 2015

Menaquinone / respiratory quinone

Low · score 3.6 · 2 sources

"It was assigned to the genus Staphylococcus due to the presence of the fatty acids, ai-C15 : 0, i-C15 : 0, i-C17 : 0, ai-C17 : 0, and of menaquinone (MK-7) in the cytoplasmic membrane, which are typical of coagulase-negative staphylococci."

Staphylococcus argensis sp. nov., a novel staphylococcal species isolated from an aquatic... — PubMed (NCBI E-utilities), 2015

16S rRNA gene sequencing

Low · score 2.57 · 1 source

"All reference staphylococcal strains were identified at the species level using Sanger sequencing of the 16S rRNA, sodA, tuf and rpoB genes and NGS of the 16S-23S rRNA region."

Development and Validation of a Reference Data Set for Assigning Staphylococcus Species B... — OpenAlex, 2019

Motility — reported negative

Low · score 1.86 · 2 sources

"The strains were non-spore-forming, non-motile Gram-positive cocci, facultative anaerobes."

Streptococcus sciuri sp. nov., Staphylococcus marylandisciuri sp. nov. and Staphylococcus... — PubMed (NCBI E-utilities), 2023

Spore formation / stain — reported negative

Low · score 1.86 · 2 sources

"The strains were non-spore-forming, non-motile Gram-positive cocci, facultative anaerobes."

Streptococcus sciuri sp. nov., Staphylococcus marylandisciuri sp. nov. and Staphylococcus... — PubMed (NCBI E-utilities), 2023

Aerotolerance test — reported positive

Low · score 1.86 · 2 sources

"The strains were non-spore-forming, non-motile Gram-positive cocci, facultative anaerobes."

Streptococcus sciuri sp. nov., Staphylococcus marylandisciuri sp. nov. and Staphylococcus... — PubMed (NCBI E-utilities), 2023

Urease — reported negative

Low · score 1.62 · 2 sources

"In contrast to S. pettenkoferi, M4S-6T was ornithine decarboxylase-positive, urease-negative and could use formate and l-histidine as carbon-sources; nitrate was not reduced."

Staphylococcus argensis sp. nov., a novel staphylococcal species isolated from an aquatic... — PubMed (NCBI E-utilities), 2015

- Ornithine decarboxylase — reported positive

Low · score 1.62 · 2 sources

"In contrast to *S. pettenkoferi*, M4S-6T was ornithine decarboxylase-positive, urease-negative and could use formate and L-histidine as carbon-sources; nitrate was not reduced."

Staphylococcus argensis sp. nov., a novel staphylococcal species isolated from an aquatic... — PubMed (NCBI E-utilities), 2015

- Whole-genome sequencing / ANI

Low · score 1.28 · 1 source

"Accurate identification with whole-genome sequencing requires access to data derived from type strains."

Draft Genome Sequences of 64 Type Strains of 50 Species and 25 Subspecies of the Genus *Staphylococcus*... — Europe PMC, 2019

- ONPG (beta-galactosidase) — reported negative

Low · score 0.81 · 1 source

"In contrast to *S. saprophyticus* subsp. *saprophyticus*, the novel strains are pyrrolidonyl arylamidase and beta-glucuronidase positive and beta-galactosidase negative, nitrate is reduced, and acid produced aerobically from D-mannose."

Staphylococcus edaphicus sp. nov., Isolated in Antarctica, Harbors the *mecC* Gene and Genomic Islands with a Suspected Role in Adaptation to Extreme Environments... — Europe PMC, 2018

7 References

1. Clarifying the Dual Role of *Staphylococcus* spp. in Cheese Production. 2025
MED:41299981 doi:10.3390/foods14223823 · via Europe PMC · supported: Biochemical tests for identification
2. 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
3. A comprehensive technology strategy for microbial identification and contamination investigation in the sterile drug manufacturing facility-a case study. 2024
MED:38410390 doi:10.3389/fmicb.2024.1327175 · via Europe PMC · supported: Biochemical tests for identification
4. *Streptococcus sciuri* sp. nov., *Staphylococcus marylandisciuri* sp. nov. and *Staphylococcus americanisciuri* sp. nov., isolated from faeces of eastern grey squirrel (*Sciurus carolinensis*). 2023
PMID:37578899 · via PubMed (NCBI E-utilities) · supported: Gram character, Biochemical tests for identification
5. Two New M23 Peptidoglycan Hydrolases With Distinct Net Charge. 2021
MED:34630350 doi:10.3389/fmicb.2021.719689 · via Europe PMC · supported: Gram character
6. Control of stripe rust of wheat using indigenous endophytic bacteria at seedling and adult plant stage 2021
PMC8280153 · via PubMed Central (open access) · supported: Time required to grow
7. Comparative genomic analysis and characterization of *Staphylococcus* sp. AOAB, isolated from a notoriously invasive *Mnemiopsis leidyi* gut revealed multiple antibiotic resistance determinants 2021
https://openalex.org/W3119792913 · via OpenAlex · supported: Biochemical tests for identification
8. Development and Validation of a Reference Data Set for Assigning *Staphylococcus* Species Based on Next-Generation Sequencing of the 16S-23S rRNA Region 2019
https://openalex.org/W2963274849 · via OpenAlex · supported: Biochemical tests for identification
9. Draft Genome Sequences of 64 Type Strains of 50 Species and 25 Subspecies of the Genus *Staphylococcus* Rosenbach 1884. 2019
MED:31023808 doi:10.1128/mra.00062-19 · via Europe PMC · supported: Biochemical tests for identification
10. *Staphylococcus edaphicus* sp. nov., Isolated in Antarctica, Harbors the *mecC* Gene and Genomic Islands with a Suspected Role in Adaptation to Extreme Environments. 2018
MED:29079617 doi:10.1128/aem.01746-17 · via Europe PMC · supported: Gram character, Biochemical tests for identification
11. Production de monoxyde d'azote par les staphylocoques à coagulase négative : implication de l'oxyde nitrique synthas de *Staphylococcus xylosus* 2017
https://openalex.org/W2801577630 · via OpenAlex · supported: Biochemical tests for identification
12. Nitric oxide production among coagulase negative staphylococci : involvement of nitric oxide synthase from *Staphylococcus xylosus* 2017
https://openalex.org/W4392416707 · via OpenAlex · supported: Biochemical tests for identification
13. *Staphylococcus argensis* sp. nov., a novel staphylococcal species isolated from an aquatic environment. 2015
PMID:25964519 · via PubMed (NCBI E-utilities) · supported: Biochemical tests for identification
14. *Staphylococcus argensis* sp. nov., a novel staphylococcal species isolated from an aquatic environment 2015
doi:10.1099/ijs.0.000319 · via Crossref · supported: Biochemical tests for identification
15. 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.