JSBio Microbial Culture Media: Precision, Reliability, Compliance

Unwavering Quality for Critical Microbial Detection

At JSBio, we understand that the accuracy and reliability of your microbial testing are paramount. Our comprehensive range of culture media is meticulously developed and rigorously tested to ensure superior performance, enabling precise and compliant microbial detection across various industries, including pharmaceuticals, food and beverage, cosmetics, and environmental monitoring. With JSBio, every test is a step towards assured quality and safety.

Test with the Highest Level of Confidence

All our ready-to-use media are manufactured in controlled environments where each lot undergoes stringent quality control. We certify for pH, sterility, and growth promotion, ensuring compliance with major pharmacopoeias including the USP, and EP, as well as our strict internal QC procedures. Our commitment to excellence ensures that every batch provides reliable and reproducible results for your critical microbial testing needs.

Comprehensive Solutions for Diverse Applications

JSBio offers a specialized portfolio of culture media designed to meet your specific needs: Microbial enumeration (e.g., total bacterial and fungal counts).

Sterility Testing	Bioburden Testing	Environmental Monitoring	General Microbiology

Fluid Thioglycollate Medium (FT)

FT is designed for cultivating anaerobic and microaerophilic bacteria. It is critical for sterility testing, especially in detecting contamination in oxygen-sensitive environments.

Features:

- Supports anaerobes and microaerophiles
- Allows reliable visual growth indication

Tryptone Soy Agar (TSA)

TSA is a nutrient-rich medium for cultivating diverse bacteria, including fastidious types. Used for bacterial counts, environmental monitoring, and sterility testing.

Features:

- Supports wide bacterial growth
- Enhances recovery of stressed microbes

NaCl-Peptone Buffer

pH 7.0 NaCl-Peptone Buffer maintains microbial viability and osmotic balance with low peptone, providing nutrients without promoting growth. Used for dissolving, suspending, and diluting samples and strains.

Tryptone Soy Broth (TSB)

TSB is a general-purpose medium used for cultivating aerobic bacteria and fungi. It is widely applied in sterility testing, microbial limit tests, and aseptic process validation.

Features:

- Supports growth of aerobes and fungi
- Enables clear detection of microbial growth

Sabouraud Dextrose Agar (SDA)

SDA is a selective medium for isolating and cultivating yeasts and molds. Its acidic pH and high dextrose content inhibit bacteria while promoting fungal growth, making it ideal for environmental monitoring and quality control.

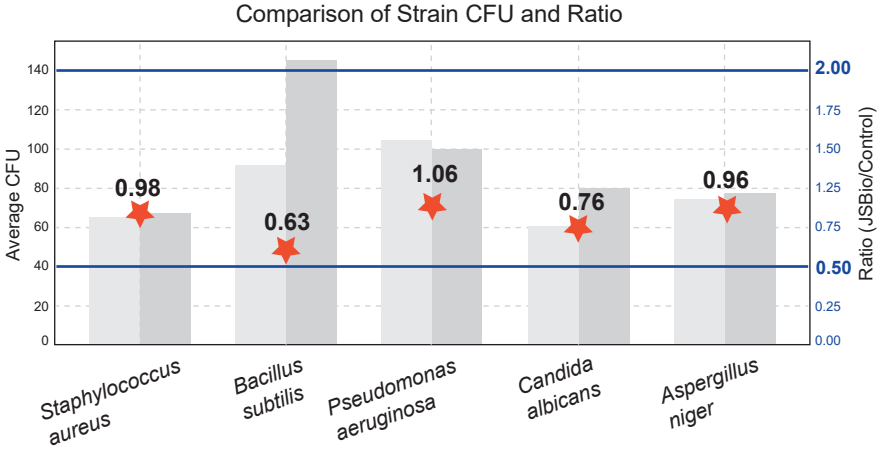
Features:

- Inhibits bacteria, promotes fungi
- Aids in fungal identification
- Ensures reliable contaminant detection and compliance

Performance Data

TSA: Suitability Test for Counting Medium

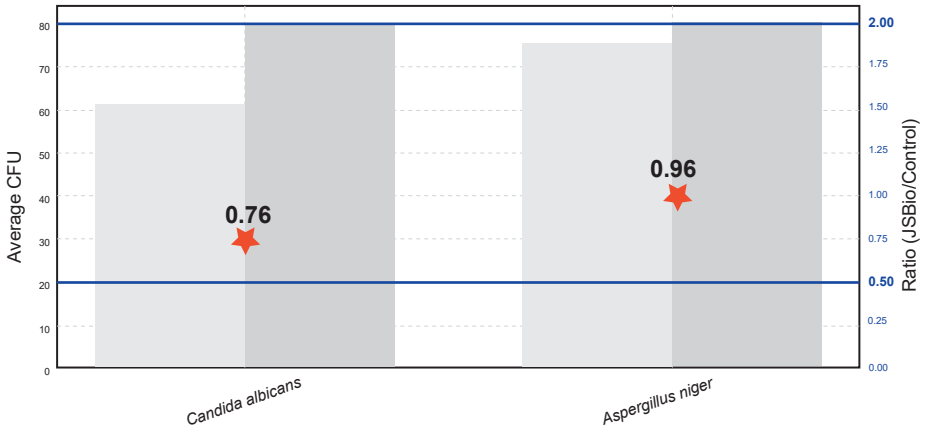
JSBio's TSA medium undergoes stringent quality control to confirm its growth-promoting properties. The following table summarizes the suitability test results for common bacterial and fungal strains:



Conclusion: JSBio's TSA meets pharmacopoeial standards (0.5–2.0 ratio), ensuring accurate microbial counting and clear identification. Ideal for quality control.

SDA: Suitability Test for Counting Medium

JSBio's SDA medium undergoes rigorous quality control to verify its selectivity and growth-promoting properties for fungi. The following table summarizes the suitability test results for common fungal strains:



Conclusion: JSBio's SDA meets pharmacopoeial standards (0.5–2.0 ratio), providing excellent recovery of *C. albicans and A. niger.* Ideal for reliable yeast and mold detection.

TSB and FT: Suitability Test for Sterility Check Media

TSB-*Bacillus subtilis*	Growth (+)
TSB-*Candida albicans*	Growth (+)
TSB-*Aspergillus niger*	Growth (+)
FT-*Staphylococcus aureus*	Growth (+)
FT-*Clostridium sporogenes*	Growth (+)
FT-*Pseudomonas aeruginosa*	Growth (+)

Conclusion: The results show both TSB and FT support specified microorganisms' growth while maintaining sterility. Growth promotion tests for TSB and FT confirm their high sensitivity and reliability in fostering diverse microbes.

Product Catalog

Product	Catalog No.	Form	Specification
Sabouraud Dextrose Agar, SDA	55002-25026	Prepared Petri Plates	10 × 90 mm
Tryptic Soy Agar, TSA	55001-25025	Prepared Petri Plates	10 × 90 mm
Trypticase Soy Broth, TSB	22448-24060.1	Liquid	100 mL
Fluid Thioglycollate Medium, FT	55003-25027	Liquid	100 mL
NaCl-Peptone Buffer	55004-25028	Liquid	500 mL

Contact Us
400 004 6572 | marketing@jianshunbio.com | www.jianshunbio.com

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