



# Metagenomic Control Material for Pathogen Detection

MSA-4000™

## Description

NGS Standards are mock microbial communities that mimic mixed metagenomic samples. This product comprises genomic DNA prepared from fully sequenced, characterized, and authenticated ATCC Genuine Cultures, and was quantitated using Droplet Digital™ PCR to improve precision in relative abundance among strains within the community. Each order for this product is provided with access to run 20 analyses on One Codex, the leading bioinformatics platform for microbial genomics and metagenomics.

Specification Range: 0.80 ng/uL to 1.33 ng/uL\*

\*DNA concentrations indicate ATCC manufacturing specifications and are provided as a reference only

### Components:

0.1% *Acinetobacter baumannii* strain 5377 (ATCC 17978)

0.7% *Enterococcus faecalis* strain V583 (ATCC 700802)

1.4% *Escherichia coli* strain CFT073(ATCC 700928)

14.4% *Klebsiella pneumoniae* subsp. *pneumoniae* strain MGH78578 (ATCC 700721)

28.9% *Neisseria meningitidis* strain FAM18 (ATCC 700532)

0.3% *Pseudomonas aeruginosa* strain PAO1-LAC (ATCC 47085)

0.7% *Staphylococcus aureus* subsp. *aureus* (MRSA) strain FPR3757 (ATCC BAA-1556)

14.4% *Staphylococcus aureus* subsp. *aureus* (MSSA) strain TCH959 (ATCC BAA-1718)

2.9% *Streptococcus agalactiae* strain 2603 V/R (ATCC BAA-611)

28.9% *Streptococcus pneumoniae* strain Spain 23F-1 (ATCC 700669)

7.2% *Streptococcus pyogenes* strain SF370 (ATCC 700294)

**Volume:** 50 µL

**Shipping information:** Stored in Tris-HCl pH 8.5

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## Storage Conditions



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**Product format:** Frozen

**Storage conditions:** -20°C or colder

### Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

Purchase of this product will include limited use access to the One Codex platform for metagenomic analysis of ATCC microbiome products. By purchasing this product, you consent and agree to allow ATCC to securely transfer sales and end users' data related to this product to One Codex. Provision of One Codex access, storage, management of sequencing data, and the interpretation and accuracy of analytical results provided by One Codex are the responsibility of One Codex and not ATCC. End users should visit [oncodex.com](http://oncodex.com) for their complementary metagenomic data analysis.



### BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories* (BMBL), U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always



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used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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### Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### Notes

Aliquoting is highly recommended to avoid multiple freeze-thaws, which can damage the DNA.

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### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Metagenomic Control Material for Pathogen Detection (ATCC MSA-4000)

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### References

References and other information relating to this material are available at

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## MSA-4000

[www.atcc.org](http://www.atcc.org).

### Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

### Disclaimers

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While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and



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## MSA-4000

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# Metagenomic Control Material for Pathogen Detection

## MSA-4000

Product Sheet

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Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

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