



Product Sheet

3 Strain Tagged Whole Cell Even Mix (ATCC® MSA-2014™)

Please read this FIRST

Storage Temp.
2°C to 8°C

Biosafety Level
2

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: 3 Strain Tagged Whole Cell Even Mix (ATCC® MSA-2014™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

This ATCC® Microbiome Standard is a mock microbial community that can be used as a spike-in control for 16S rRNA and shotgun metagenomic sequencing assays. This product comprises three fully characterized and authenticated ATCC® Genuine Cultures that contain unique synthetic 16S tags incorporated into the bacterial genome. Each tag consists of four artificial variable regions (corresponding to V1 through V4 of 16S rRNA gene) flanked by conserved regions for PCR amplification.

Total cells: 6.0×10^7 cells/vial $\pm 1 \log^*$

*Whole cell concentrations indicate ATCC manufacturing specifications and are provided as a reference only

Components

- 33.3% *Escherichia coli* with Tag 1
- 33.3% *Clostridium perfringens* with Tag 2
- 33.3% *Staphylococcus aureus* with Tag 3

Method for Resuspension

1. Customers should rehydrate the lyophilized pellet with the appropriate volume of cold PBS to achieve the desired concentration of cells/ μ L.
2. Allow the pellet to dissolve at least for two minutes; keep the vial on ice to prevent cell lysis.
3. After reconstitution, mix the product gently and aliquot as needed.
4. Centrifuge for 10 min at 10,000 $\times g$ at 4°C.
5. Carefully discard the supernatant without disrupting the pellet.
6. Use the pellet for DNA extraction immediately or freeze the pellet for use at a later time.

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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