Salmonella enterica subsp. *enterica* (ex Kauffmann and Edwards) Le Minor and Popoff serovar Braenderup

BAA-664™

Description

The DNA from this strain is used by laboratories in the Pulsenet system as the molecular size standard for pulsed-field gel electrophoresis (PFGE) analysis of bacterial pathogens (*see notes*).

Strain designation: H9812 [MIS-00418]

Deposited As: *Salmonella choleraesuis* subsp. *choleraesuis* (Smith) Weldin serotype Braenderup

Type strain: No

Serotype: I 6,7:e,h:e,n,z_{15}

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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.

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BSL 2

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 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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:
ATCC Medium 18: Trypticase Soy Agar/Broth
Temperature: 37°C
Atmosphere: Aerobic

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Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #18 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a #18 slant, and/or plate.
5. Incubate all tubes and plate at 37°C. Growth should occur in 24 hours.

Notes

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

Instructions for Testing ATCC® BAA-664™ Using the PulseNet Standardized Pulsed-Field Gel Electrophoresis (PFGE) Protocols

If you have ordered this strain for the purpose of conducting Pulsed-Field Gel Electrophoresis (PFGE) analysis using any of the standardized PulseNet protocols, please read the following information.

PFGE plugs (or blocks) of the *Salmonella* serotype Braenderup H9812 strain (ATCC® BAA-664™) are made according the "PulseNet One-Day (24-28 h) Standardized Laboratory Protocol for Molecular Subtyping of *E. coli* O157:H7, *Salmonella* serotypes, and *Shigella sonnei* by PFGE." A copy of this protocol can be requested by sending an E-mail to pfge@cdc.gov.

This strain is used as a size standard for the normalization and analysis of PFGE patterns for all organisms tracked by PulseNet, including *E. coli* O157:H7, *Salmonella*, *Shigella*, *Listeria monocytogenes*, and *Campylobacter jejuni*. After plugs of the size standard are made, approximately 2-mm slices are cut and restricted with 40-50 Units of *Xba*I enzyme for 2 hours at 37°C. The plug slices are loaded on the electrophoresis gel in lanes 1, 5, 10 (10-well gel), 1, 5, 10, 15 (15-well gel), or 1, 5, 10, 15, 20 (20-well gel).

Test samples restricted with the appropriate enzyme(s) are loaded in the other lanes.

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Electrophoresis is done using the appropriate conditions for the test organism. The table on the next page shows the PFGE pattern that is obtained with different electrophoresis conditions. The electrophoresis run time may have to be optimized in each laboratory so that the lowest band in the H9812 standard migrates 1.0 - 1.5 cm from the bottom of the gel. New lots of *S.* Braenderup H9812 PFGE plugs should be tested with “old” lots to confirm that the pattern and band intensity is the same and that no observable genetic changes have occurred.

***Salmonella* ser. Braenderup H9812 Reference (Global) Standards Restricted with *Xba* I and**

Run with Different Electrophoresis Conditions

1% SeaKem Gold Agarose Gel and 0.5X TBE buffer for 18-19 hours at 14°C

120°, Linear Ramping Factor, 6V/cm

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Salmonella enterica* subsp. *enterica* (*ex* Kauffmann and Edwards) Le Minor and Popoff serovar Braenderup (ATCC BAA-664)

References

References and other information relating to this material are available at www.atcc.org.

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