**Description**

*Escherichia coli* strain Seattle 1946 is a whole-genome sequenced quality control strain that does not produce verotoxin. This organism is a CLSI control strain for antimicrobial susceptibility testing. It is used for media testing, as a negative control for LT toxin production, and as a quality control strain for Abbott, API, Autobac, BBL, bioMerieux VITEK, Biosynth, Difco, IDS, Micro-Media, MicroScan, Roche Diagnostics, and Sensititre products. Used in susceptibility disc testing of neomycin, colistin [colimycin], kanamycin, cephalaxin, gentamicins, cefamandole, cephalothin, tetracycline, cephaloglycin, cephaloridine [cephalomycin], nalidixic acid, and chloramphenicol.

- **Strain designation** FDA strain Seattle 1946 [DSM 1103, NCIB 12210]
- **Deposited As** *Escherichia coli* (Migula) Castellani and Chalmers
- **Type strain** No
- **Patent depository** This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.
- **Patent number** 7,291,480
- **Technical information** ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.
- **Serotype** O6, Biotype 1

**Storage Conditions**

- **Product format** Freeze-dried
- **Storage conditions** 2°C to 8°C

**Intended Use**
**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 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](http://www.atcc.org).

**Growth Conditions**

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

**Handling Procedures**
• 1. Open vial.
   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 agar slant and/or plate.
   5. Incubate the tubes and plate at 37°C for 24 hours.

Notes

ATCC 25922 is a recommended reference strain for antibiotic susceptibility testing. It has been found that passage in broth often results in a change in MIC levels. Therefore, it is best to keep it on agar and to make stocks for storage immediately. Repeated passage is discouraged.

Purified genomic DNA of this strain is available as ATCC 25922D-5.

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Escherichia coli* (Migula) Castellani and Chalmers (ATCC 25922)

References

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

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