

Product Information Sheet for NR-17666

Escherichia coli Serotype O-2, Strain U9-41

Catalog No. NR-17666

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Enterobacteriaceae, Escherichia

<u>Species</u>: *Escherichia* coli <u>Strain</u>: U9-41

Serotype: O2:K1:H4^{1,2}

Original Source: Escherichia coli (E. coli), Serotype O-2,

strain U9-41 was isolated from human urine.1

<u>Comments</u>: Strain U9-41 is the standard reference strain for the K1 antigen.³ *E. coli* Serotype O-2, strain U9-41 was selected to undergo complete genome sequencing at the J. Craig Venter Institute.

E. coli is a Gram-negative rod-shaped bacterium which occurs singly or in pairs. It is a major facultative inhabitant of the large intestine.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-17666 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:

Tryptic Soy broth or Nutrient broth or equivalent

Tryptic Soy agar or Nutrient agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C Atmosphere: Aerobic

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of broth.
- Use several drops of the suspension to inoculate an agar slant and/or plate.

4. Incubate the tube, slant and/or plate at 37°C for 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Escherichia coli* Serotype O-2, Strain U9-41, NR-17666."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

- Orskov, I., et al. "Serology, Chemistry, and Genetics of O and K Antigens of Escherichia coli." <u>Bacteriol. Rev.</u> 41 (1977): 667-710. PubMed: 334154.
- 2. DebRoy, C., Personal Communication.
- Gross, R. J., et al. "Isolation of Bacteriophages Specific for the K1 Polysaccharide Antigen of *Escherichia coli*." <u>J.</u> <u>Clin. Microbiol.</u> 6 (1977): 548-550. PubMed: 338623.

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- Kapur, V., et al. "Genome Sequencing and Analysis of Pathogenic Escherichia coli Strains." <u>J. Craig Venter</u> Institute. (2009)
- Beutin, L., et al. "Genetical and Functional Investigation of fliC Genes Encoding Flagellar Serotype H4 in Wildtype Strains of Escherichia coli and in a Laboratory E. coli K-12 Strain Expressing Flagellar Antigen Type H48." <u>BMC Microbiol.</u> 5 (2005): 4. PubMed: 15663798.

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