

Curian[®] Shiga Toxin is a rapid diagnostic tool that provides clinicians with actionable results to ensure appropriate patient management.

Shiga toxin-producing *E. coli* (STEC) remains one of the most common foodborne pathogens resulting in hospitalizations each year.¹

- Proper diagnosis is essential as antibiotics are not recommended for treatment. Antibiotics can increase Shiga toxin release, which can lead to Hemolytic Uremic Syndrome, a potentially lifethreatening complication.¹
- When it comes to diagnosing *E. coli* infections, using a broth is best. Testing from an overnight growth of enrichment broth is a CDC recommended approach as the amount of free toxin may not be detectable from direct testing of stool.¹





Follow Guideline Recommendations

- · CDC and ICAHO recommend that all stools be tested for Shiga toxin-producing E. coli¹.
- · Testing from an overnight growth of enrichment broth is recommended as the amount of free toxin may not be detectable from unenriched stool.

Increased Sensitivity over traditional methods

- · Detects and differentiates between Shiga toxins 1 and 2 with results up to 24 hours earlier than traditional culture methods.
- · Proper diagnosis is necessary as Shiga toxin 2 is associated with an increased risk of HUS.
- · Half of all STEC infections are caused by non-O157 serotypes.2 SMAC culture will miss all non-O157 serotypes and has been shown to have a sensitivity as low as 50%3.
- Curian® provides a digital test result that eliminates the risk of subjective analysis by the technologist.

Curian® Shiga Toxin Procedure Steps

Sample to result in 3 steps Less than 1 minute hands on time



Discharge sample



Add sample to card



Place card into instrument and start

Product Specifications

Curian® Shiga Toxin is a rapid, qualitative fluorescent immunoassay for the simultaneous detection and differentiation of Shiga toxin 1 and Shiga toxin 2 in a single test device. It is intended for use with cultures derived from human stool specimens to aid in the diagnosis of disease caused by Shiga toxin-producing E. coli (STEC) infections.

Time to Result

20 minutes

Sample Type

Preserved & unpreserved stool specimens

Sample Storage

- Preserved specimens may be held for up to 5
- Unpreserved specimens may be held for up to 2 hours refrigerated or 14 days frozen
- Broth cultures may be held for up to 7 days
- Broth cultures may be frozen and thawed twice

Kit Storage

30 device cards, 30 Aiopreps, 66 transfer pipettes, positive control

Store the kit at 2-8C

Performance

	Sensitivity	Specificity
Shiga Toxin 1	100%	99.4%
Shiga Toxin 2	100%	99.5%

Catalog Number

Curian[®] Shiga Toxin — 760630

CPT Codes

Broth enrichment 87015 Curian Shiga Toxin 87427, 87427-59

References

- 1. Centers for Disease Control and Prevention, Recommendations for Diagnosis of Shiga Toxin-Producing Escherichia coli Infections by Clinical Laboratories, MMWR, October 16, 2009; 58 No. (RR-12): pp. 1-20

 http://blogs.cdc.gov/publichealthmatters/2010/a-primer-on-e-coli-o145/

 C. Thorpe, Shiga Toxin-Producing Escherichia coli Infection, Clinical Infectious Diseases, 2004, Vol. 38:

Ready to get a handle on E. coli testing? Let's talk.

Contact a specialist at 1-888-763-6769. meridianbioscience.com/contact-us

