

Native Shigella Species Cells, Heat-Inactivated

Cat. No. SHI-577 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Heat-killed Shigella species cells in dextran solution. Antigen is intended for use as a positive control in immunoassay development for Shigella detection.

Background

Shigella is the primary agent of bacillary dysentery, also referred to as shigellosis. Shigellae are Gram-negative, non-motile rods that are transmitted by the direct faecal–oral route. There are four species within the genus Shigella: Shigella dysenteriae, Shigella flexneri, Shigella boydii, and Shigella sonnei. These four species are also designated as subgroups A, B, C, and D, respectively. With the exception of S. sonnei, each species is made up of multiple serovars. S. dysenteriae has 15 serovars, S. flexneri has six serovars (with one to five possessing subtypes a and b), and S. boydii has 20 serovars. Shigella species cause an estimated 167 million episodes of diarrhea worldwide and over a million deaths. S. sonnei is predominantly responsible for dysentery in developed countries but is replacing S. flexneri as a problem in the developing world. Foodborne outbreaks are often linked to salad items contaminated at the country of origin or by the food handler. The global spread of Shigella clones or the emergence of new S. flexneri serotypes is associated with multidrug resistance. As the antibiotic-resistant Shigella strains are increasing worldwide, they severely limit treatment options (Aslam & Okafor, 2021).

Notes

This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.

Type

Native

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ClassID 1	Infectious Disease
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GENE INFORMATION

Synonyms	Shigella Species
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