Native Helicobacter Pylori Cells, Heat-Inactivated

Cat. No. HEL-241 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Heat-killed Helicobacter pylori cells in dextran solution. Antigen is intended for use as a positive control in immunoassay development for Helicobacter detection.
Background	Helicobacter pylori (H. pylori) is a spiral-shaped bacterium that infects 30-50% of the world's population, making it one of the most common human bacterial infections. It invades the mucosal lining of the stomach and is the cause of up to 80% of duodenal and up to 60% gastric ulcers and has also been associated with gastric cancer and lymphoma. As such, the World Health Organization (WHO) has declared the bacteria to be a Class 1 carcinogen (Camilo et al., 2017). The exact mode of transmission of H. pylori remains unclear. There is some evidence to suggest that it is transmitted from person to person via the faecal-oral route. Most H. pylori infections occur in childhood. Crowded living conditions, poor sanitation, poor personal hygiene and a poor water supply correlate with higher rates of infection (which can approach 80% of the population in the developing world). The majority of people with H. pylori are asymptomatic but symptoms of infection can include burning pain in the upper portion of the abdomen, indigestion, nausea, vomiting, burping, loss of appetite. The patient's blood may be screened for the presence of antibodies to pylori indicating an immune response to the bacteria as well as a stool antigen test (Wang et al., 2015).
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.

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Type	Native
ClassID 1	Infectious Disease

GENE INFORMATION

Synonyms	Helicobacter Pylori

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