Encode Campylobacter jejuni ID Kit

Item code: EIL-FS-CBJ
Technology: PCR / Real Time PCR/ PCR
Manufacturer: ENCODE
Size: EIL-FS-CBJ-10 Rxns
EIL-FS-CBJ-25 Rxns
EIL-FS-CBJ-50 Rxns
EIL-FS-CBJ-100 Rxns

BACKGROUND:

Campylobacter is one of the most common bacterial causes of gastroenteritis worldwide, and *Campylobacter jejuni* causes the majority of *Campylobacter* infections. The rate of Campylobacter-associated food poisoning has gradually increased. This bacterium causes zoonotic diseases, a disease transmitted to humans from animals or animal products. Currently, *Campylobacter jejuni* is responsible for about 80% of Campylobacter infections in humans. The main route of transmission is generally believed to be foodborne, via undercooked meat and meat products, as well as raw or contaminated milk. Contaminated water or ice is also a source of infection. The contamination occurs due to long exposure of meat to the normal atmosphere during sample processing. For the detection of *Campylobacter jejuni* culture-based methods are time-consuming and alternative methods are needed in order to quickly detect and identify *C. jejuni* in food. In vitro DNA amplification by polymerase chain reaction (PCR), in particular, using real time PCR and specific fluorescent probes, is a powerful and reliable tool for detection of *C. jejuni*, providing results much faster and allowing more efficient control procedures.

PRODUCT DESCRIPTION:

REAL TIME DETECTION KIT *Campylobacter jejuni* uses real-time PCR technology for the detection of *Campylobacter jejuni* in a simple, efficient, reliable, and rapid procedure. This method is based on 5’ nuclease real time PCR reactions to amplify a unique and desirable genomic sequence in the target microorganism. This carefully designed primers and probe ensure highest sensitivity, accuracy and specificity.