

DATA SHEET**Clostridium botulinum Detection LyoKit, 5'Nuclease****Code Number#21-R60240****Pack Size: 96 reactions**

Description: Clostridium botulinum is a rod-shaped, anaerobic, spore-forming bacterium capable of inducing foodborne botulism when consumed in contaminated food. From the eight different toxin types A to H, only A, B, E and F are known to cause disease in humans. Improperly preserved foods, such as canned goods or pickled fish, are the most common form of contracting foodborne botulism. C. botulinum is a naturally occurring soil bacterium. Thus, it can potentially contaminate food at multiple stages within the production process, including honey and milk.

The Clostridium botulinum Detection LyoKit is based on real-time PCR technology, which is well-established in the food industry as a highly sensitive and specific detection method. The kit detects and identifies all of the human disease- causing toxin types (A, B, E and F) in one multiplex PCR assay using melting curve analysis. This method is a superior alternative to other assays, including mouse bioassay.

Sample Matrices: For matrices like dairy products
(e.g. milk powder), meat, fish, canned goods, honey and others

DNA Extraction: approx. 30 min

PCR Setup: approx. 10 min

Real-time PCR Run: 60 - 110 min

Instrument Compatibility: 5'Nuclease / TaqMan® cycler
(e.g. PikoReal 24, AriaMx, LightCycler 480, LC 96, LC 2.0, ABI 7500)

Storage: at 2 °C to 8 °C

For in-vitro diagnostic use. Not for human or animal consumption.