

SMARTCHEK

Foodborne Pathogen Detection Kits

Novel, fast and accurate molecular-based testing

Why food safety is being an issue?

There are many opportunities for food contamination to take place as today's food supply is complex and involves a range of different stages including on-farm production, slaughtering or harvesting, processing, storage, transport and distribution before the food reaches the consumers. Accordingly, everyone along the production chain, from producer to consumer, has a role to play to ensure the food we eat does not cause diseases.

Better efficiency ensured for food safety testing

Real-time polymer chain reaction (PCR) method is one of the most well known and versatile molecular testing technologies which provides good sensitivity and high accuracy. However, this technology is not being widely used in food safety testing applications because microbial culture based testing and ELISA testing has been dominant methods in food and agricultural industries. Genesystem is proud to introduce its ultra-fast real-time PCR based food safety testing kits which provide high efficiency along with the key advantages of real-time PCR methods. Typical test running time of these probe based assays on **GENEHECKER** UF-150 platform is 30 minutes and on-site detection is also possible when these assays are applied to mobile lab system provided by Genesystem.



Using **GENEHECKER** UF-150 ultra-fast PCR platform, target amplification and analysis can be finished in 30 minutes.

Highly sensitive and specific assays for the detection of major foodborne pathogens in food safety testing applications

Universal testing protocol for the different pathogens for easy runs

Ideal for on-site detection using **GENEHECKER** UF-150 based mobile lab system

Which targets?

Interagency Food Safety Analytics Collaboration identified four priority pathogens that it believes were responsible for about 21% of foodborne illnesses, 56% of related hospitalizations and 54% of related deaths annually in the United States.

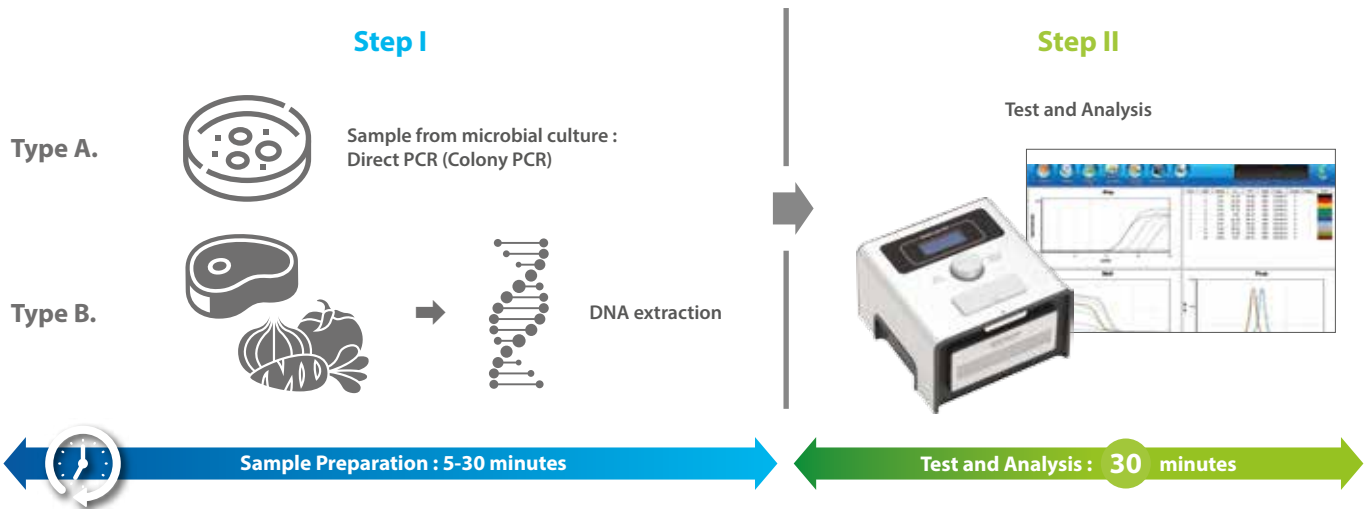
These are Salmonella, E-Coli, Listeria monocytogenes and Campylobacter.

The portfolio of **SMARTCHEK** foodborne pathogen detection kits cover these major foodborne pathogens and is being expanded to cover more range of pathogens.

Standard Workflow



Standard test process of SMARTCHEK



Ordering Information

Catalog Number	Product	Pack Size
004501	SMARTCHEK <i>Salmonella</i> spp. Detection Kit	48 tests
004502	SMARTCHEK <i>Listeria monocytogenes</i> Detection Kit	48 tests
004503	SMARTCHEK <i>Escherichia coli</i> O157 Detection Kit	48 tests
004504	SMARTCHEK <i>Campylobacter jejuni</i> Detection Kit	48 tests



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