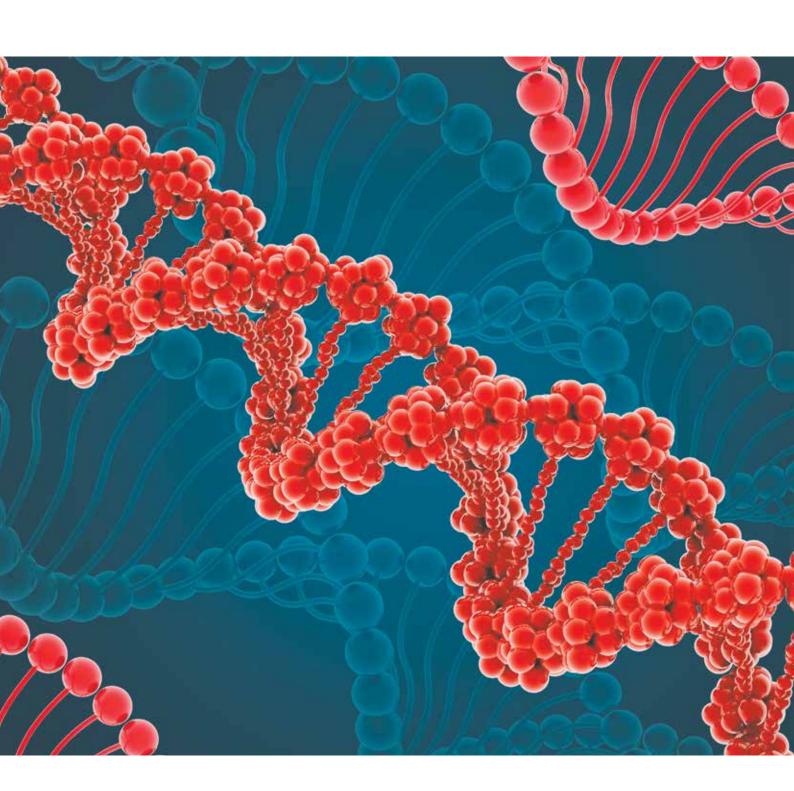
E. COLI DEC PCR KIT





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E COLLDEC PCR KIT

Description

The DEC PCR Kit is for detection of virulence genes of diarrhoeagenic Escherichia coli (DEC) from isolated colonies1.

The DEC PCR Kit includes a primer mix containing 8 primer pairs directed towards 7 virulence genes and 16S rDNA (positive internal control).

Traditionally, characterisation of DEC has been based on results from serotyping. Screening for DEC by our multiplex PCR allows characterization of DEC based on virulence genes and not only on the serotype. This way, it is avoided that pathogenic E. coli isolates are overlooked. The PCR method is suitable for all microbiological laboratories that detect *E. coli.*

Background

Today E. coli 0157 and other types of verocytotoxin-producing E. coli (VTEC) are considered as some of the most important human pathogens in developed countries.

Among the different groups of intestinal pathogenic strains, the most important groups of DEC are:

- Verocytotoxin producing (VTEC)
- Attaching and effacing E. coli (A/EEC) including enteropathogenic *E. coli* (EPEC)
- Enterotoxigenic E. coli (ETEC)
- Enteroinvasive E. coli (EIEC)

The DEC PCR Kit allows determination of the virulence genes for all of these groups.

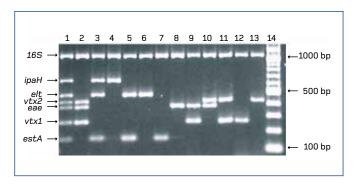
Gene	E. coli group
16S rDNAª)	-
ipaH	EIEC
eltA	ETEC
vtx2	VTEC
eae	EPEC & A/EEC
vtx1	VTEC
estA-porcine	ETEC
estA-human	ETEC

a) Amplifies a fragment from most Gram-negative bacteria

Application

The DEC PCR Kit includes DEC primer mix, two PCR positive DNA controls, PCR ReadyMix (including loading buffer), TEbuffer and 10% Chelex-100. The kit includes reagents enough to perform 100 PCR tests. It is also possible to purchase the primer mix and positive DNA controls separately (DEC Primer Mix, art. no. 62870).

The DNA template is prepared by boiling and diluting E. coli colonies from a selective medium. When an E. coli is tested positive in the PCR, the strain should be recovered from the plate and serotyped by traditional methods.



Analysis of 13 different templates. Lane 1 to 13 contain a variety of different templates and lane 14 contains a 100 bp DNA marker

Storage and Shelf Life

The DEC PCR Kit is stable for 1½ years (for storage temperature of the different reagents read the instruction for use). The expiry dates are printed on the individual reagents.

Product Assortment

Article no. 73410, DEC PCR Kit

Reference

1. S. Persson, K.E.P. Olsen, F. Scheutz, K.A. Krogfelt and P. Gerner-Smidt. A method for fast and simple detection of major diarrhoeagenic Escherichia coli in the routine diagnostic laboratory. Clin Microbiol Infect 2007; 13: 516-524

Information and Ordering

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