



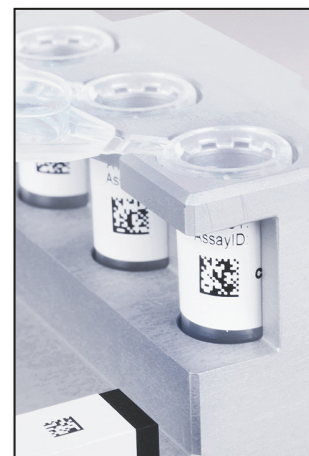
IDENTIBAC®

E. coli GENOTYPING

Identibac *E. coli* Genotyping enables you to screen multiple genetic markers in a rapid, inexpensive, robust and easy-to-use system without the complexity and investment associated with traditional glass slide arrays or multiplex PCRs.

ArrayTube™ DNA microarrays for the detection of *92 virulence genes in Escherichia coli*

- characterises the virulence gene profile of your *E. coli* strains genetically
- identifies the virulence profile for all pathogenic types of *E. coli* and determines the underlying molecular cause of virulence
- results obtained within 24 hours
- enables the study of epidemiological outbreaks at a molecular level
- enables you to conduct surveillance at the genetic level
- enables you to study the incidence of virulence genes in a population over time or as a snapshot in a particular setting
- to use with ArrayMate™ and ATR 03 reader
- for gene list see www.identibac.com



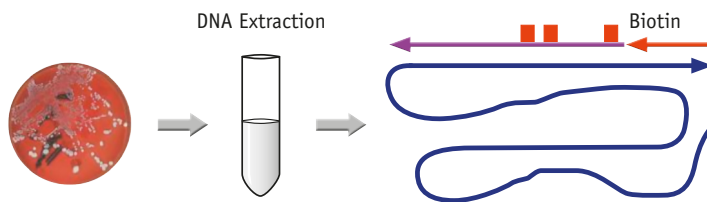
Genotyping
on the Spot 

ASSAY PRINCIPLE

Following the extraction of genomic DNA the technique has the following basic stages:

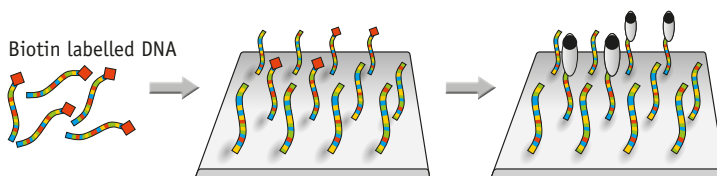
Amplification

The extracted RNA free genomic DNA is Biotin labelled and amplified in a linear multiplex PCR reaction.



Hybridisation

The resulting single stranded PCR product hybridises to the corresponding probes. The bound PCR product is detected using a horse-radish peroxidase – streptavidin conjugate, which converts the substrate [seramun green] into a coloured precipitate.



Detection + Analysis

The Reader (ArrayMate™ or ATR 03 Reader) enables the capture and visualisation of the array image. The presence of a dark spot indicates successful hybridisation. The software, supplied with the ArrayMate™ Reader (or ArrayTube™ Reader ATR 03), measures the signal intensity of each probe and determines which genes are present in the sample.



Analysis of the tubes by the ArrayMate™ Reader

NEW!

E. COLI GENOTYPING KIT

Catalogue no. 205400050

Kit Content

- 50 ArrayTubes
- Master mix for linear amplification
- Hybridisation buffer system
- Software available for automated analysis on the Arraymate

FOR RESEARCH USE ONLY.
NOT INTENDED FOR USE IN CLINICAL DIAGNOSIS.

INFO@IDENTIBAC.COM

Literature: Applied and Environmental Microbiology, Sept. 2007, p.5692-5697 Pathotyping *Escherichia coli* by using miniaturised DNA Microarrays; Anjum M F, Mafura M, Slickers P, Ballmer K, Kuhnert P, Woodward M J, Ehrlich R