

# RESISTANCE AND VIRULENCE CHARACTERIZATION OF INFECTIOUS PATHOGENS LIKE INFLUENZA, CAMPYLOBACTER JEJUNI AND OTHERS

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## Technology description

### TECHNOLOGY

Following real time PCR, the amplicon is reannealed simultaneously with multiple, differently-labelled probes each with a SNP characteristic of a sub-type, resistance or virulence trait. The denaturation temperatures of these duplexes are compared to standards for each trait to determine which SNPs are present in the amplicon. This protocol produces annealing temperatures specific to pathogen subtypes and mutations that are cleaner and easier to interpret than other technologies that are currently being developed.

Furthermore, our technique allows the use of two or even more different probes that could detect different SNPs on the same sequence and could result in a low cost, multiplex detection and characterization of pathogens.

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