

TRUPCR® VRE Detection Kit

NEED

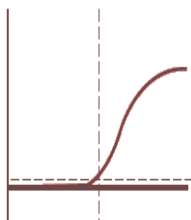
Enterococcus spp. are normally present in the human intestines, but recently they are recognized as major pathogens causing urinary tract infections and sepsis by nosocomial infection. Extensive antibiotic treatments have caused Enterococcal strains such as *E. faecalis* or *E. faecium* to become resistant to vancomycin, which is commonly used in the treatment of Enterococci infection. Acquired resistance to vancomycin Resistant Enterococci (VRE) poses a major public health problem since it was first reported. VRE are among the most common resistant pathogens frequently causing healthcare associated infections and a growing concern for health care professionals. A fast and effective identification of VRE is essential to prevent its nosocomial transmission.



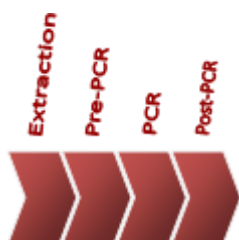
SOLUTION BY TRUPCR®

TRUPCR® VRE Detection Kit is a multiplexed real time PCR kit which is intended for sensitive and specific detection of *Enterococcus* spp. (*E. faecalis* or *E. faecium*), *vanA* and *vanB* genes in clinical samples / cultured isolates. This is a single tube reaction targeting *Enterococcus* spp. and vancomycin resistance genes *vanA* and *vanB* along with an endogenous internal control. This assay is based on TaqMan hydrolysis probe which allows higher specificity and sensitivity.

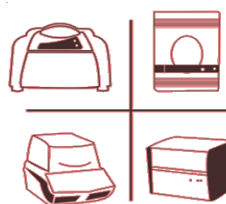
KEY FEATURES



Endogenous Internal Control incorporated within the kit to ensure reliable results



Complete workflow solution available from Extraction of sample to Post-PCR analysis



Platform agnostic as compatible with various platforms



Rapid and reliable results within 60 minutes after PCR Start

TARGET PATHOGEN & ANTIBIOTIC RESISTANCE GENE

Primer Probe Mix 1

FAM	TEX RED	Cy5	HEX
<i>Enterococcus</i> spp.	<i>vanA</i>	<i>vanB</i>	Endogenous IC



TECHNICAL SPECIFICATIONS

- Sample Type – Blood Culture, Rectal swab, mid-stream clean catch urine or cultured isolates
- Simultaneous identification of *Enterococcus* spp. and vancomycin resistance genes in one single tube
- LoD Data = 10 Copies/reaction
- UNG is included in the master mix to avoid carry over contamination
- Reaction Volume - 20µl in each tube
- Compatible Instruments – Applied Biosystems™ 7500 series, Applied Biosystems™ QuantStudio® series, Bio-Rad CFX96, MIC PCR

CLINICAL DATA

		Reference Method		
		Positive	Negative	Total
TRUPCR Method	Positive	71	1	72
	Negative	0	54	54
Total		71	55	126

Parameters	Estimate
Sensitivity	98.63%
Specificity	100.00%
Positive Predictive Value	100.00%
Negative Predictive Value	98.18%



ORDERING INFORMATION

Cat. No.	Description	Size
3B373	TRUPCR® VRE Detection Kit	48 Reactions
3B374	TRUPCR® VRE Detection Kit	96 Reactions