

Brochure

SAAI Sure-*E. faecalis* Multiplex PCR detection kit



SAAI ELECTRO BIOGENIC
INDIA PVT LTD

Always there for care



National Institute of Ocean Technology
(Ministry of Earth Sciences, Government of India)

Description

NIOT - *E. faecalis* kit is an all-inclusive, ready to use kit which simplifies and expedite the process of detection of virulent genes in pathogenic *E. faecalis* (*gelE*-213 bp, *asa1*-713 bp, *hyl*-276 bp) within 6 hours in a single step. NIOT - *E. faecalis* Multiplex PCR detection kit contains: NIOT - *E. faecalis* enrichment medium to attain sufficient cell growth within 3 hours

Digestion buffer enable to extract the crude DNA from the pure and enriched cultures

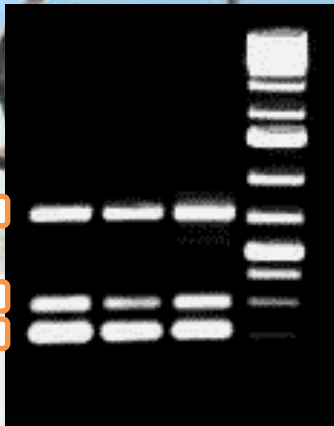
NIOT - *E. faecalis* Multiplex PCR master mix for the specified amplification and detection of virulent genes 4) Positive and negative PCR control mix helps to identify and interpret the virulence range of the pathogen.

Applications

Ideal for pollution monitoring on the basis of virulence and multidrug resistance, clinical and food surveillance.



(a) (b) (c) (d)



713 bp

276 bp

213 bp

Agarose gel electrophoresis of Multiplex PCR.

(a) Clinical sample (b) Environmental sample (c) Food sample (d) DNA ladder

Benefits

Time-to-Result

- ❖ One step detection.
- ❖ Achieve results typically within 6 hours.
- ❖ Increased sensitivity.
- ❖ Advanced test tracking and specificity.

Test Ready

- ❖ All-in-One Kit.
- ❖ Minimizes time.
- ❖ Eliminates unintended contamination.
- ❖ Each set is triple-bagged and gamma irradiated.

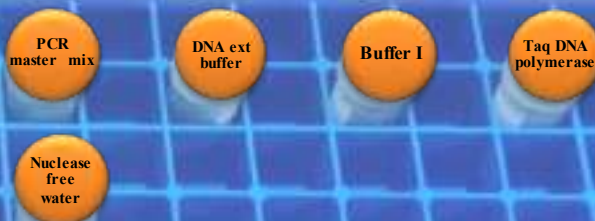
Reduced Operator Handling

- ❖ Simplified standard operating procedures.
- ❖ Decreases time-consuming amplification and detections.
- ❖ Faster and one step detection.

**SAAI Sure-*E. faecalis* Multiplex PCR
detection kit**
(Detection of virulent *Enterococcus faecalis* in single step)
Store at -20°C



Marine Biotechnology Group
ESSO-National Institute of Ocean Technology, Ministry of Earth Sciences, Govt. of India, Chennai - 600100



Each individual gamma irradiated peel pouch kit contains:

Products	Volume
NIOT-EF enrichment medium (Broth)	100 g (dry powder)
DNA extraction buffer	3 mL/vial
PCR master mix	450 µL/vial
Buffer I (MgCl ₂)	15 µL (2.5 mM)
<i>Taq</i> DNA polymerase	375 µL (3 U/µL)
Nuclease free water	0.5 mL/vial
Positive control	25 µL/vial
Negative control	25 µL/vial

Storage Temperature: NIOT - *E. faecalis* enrichment medium: tightly seal and store at room temperature (15-25°C). Reagents: (Digestion buffer, PCR master mix, Buffer I [MgCl₂], *Taq* DNA polymerase, Nuclease free water, Positive control, Negative control): tightly seal and store at -20°C.

Approximate Detection: 1-5 CFU/ mL



Agricultural sector



Water quality management



Clinical sector



Food processing sector



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