

# TECRA<sup>®</sup>

## STAPHYLOCOCCAL ENTEROTOXIN VISUAL IMMUNOASSAY

A rapid and simple screening test for the detection of Staphylococcal Enterotoxins A, B, C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, D and E in food and food-related samples, and enrichment cultures.

### Why test your product for Staphylococcal Enterotoxin?

- ♦ Staphylococcal food poisoning is one of the most common types of foodborne disease worldwide.
- ♦ Food poisoning outbreaks involving this pathogen have resulted in major product recalls and substantial economic loss. Numerous cases of illness have resulted from these outbreaks.
- ♦ Some strains of *S. aureus* are capable of producing a highly heat-stable protein toxin that causes illness in humans. Enterotoxins implicated in staphylococcal food poisoning include enterotoxins A, B, C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, D and E.
- ♦ Heat treatments commonly used in food processing may kill viable *S. aureus* cells but cannot be relied upon to inactivate enterotoxins. Residual enterotoxins can cause food poisoning. Therefore, **it is advisable that foods be examined for the presence of residual toxin in addition to viable organisms.**
- ♦ Food poisoning outbreaks caused by *S. aureus* have been associated with a wide range of foods including meat and meat products, poultry and egg products, milk and dairy products, salads, bakery products, sandwich fillings and fast foods. Some foods are particularly susceptible to growth of *S. aureus* during production. These include pasta, some cheeses, fermented sausages, ham and salami.
- ♦ The TECRA Staphylococcal Enterotoxin Visual Immunoassay (VIA<sup>™</sup>) method makes testing for Staphylococcal Enterotoxin fast, simple, reliable and economical.



### Why use the TECRA Staphylococcal Enterotoxin VIA<sup>™</sup>?



#### Fast

- ♦ Detect preformed enterotoxin in samples within 4 hours.
- ♦ Screen food and environmental samples for the presence of Enterotoxin-producing *Staphylococcus spp.* in as little as 22 hours.
- ♦ You can ship product sooner based on a rapid TECRA result.



#### Simple and Convenient

- ♦ Minimal hands-on time. Traditional methods (including the diffusion-based techniques) are extremely labour-intensive, requiring extensive sample extraction and concentration.
- ♦ Up to 94 tests can be performed simultaneously.



**✓ Flexible**

- ♦ Recommended for a wide range of food and food-related samples.
- ♦ Depending on your specific needs, the kit can be used manually or automated for large scale testing.

**✓ Accurate & Reliable**

- ♦ Unique high affinity TECRA antibodies give results in which you can have confidence.  
Sensitivity : 1ng/mL of prepared sample  
Specificity : >96%

**✓ Customer Training & Support**

- ♦ You can rely on the extensive technical, training and sales support from TECRA staff and also through TECRA's global network of distributors.

**✓ Economical**

- ♦ The simplicity of the TECRA Staphylococcal Enterotoxin VIA method frees up laboratory time for other tasks and projects.
- ♦ Rapid results ensure you can release inventory earlier, reducing holding costs.

**✓ Proven Performance**

- ♦ The TECRA Staphylococcal Enterotoxin VIA method has been extensively validated in independent trials.
- ♦ List of Approvals:
  - AOAC Method No. 993.06
  - NZDB (New Zealand Dairy Board) - Approval No. 95-12-02
  - MAB (Ministry of Agriculture, Brazil)

**Enterotoxin Identification:**

Following positive results from the TECRA Staphylococcal Enterotoxin VIA, individual toxins can be identified using the TECRA Staphylococcal Enterotoxin Identification VIA kit (SIDVIA72).

**Other Materials Required for the SET VIA method:**

- ♦ Centrifuge (1000-3000xg)
- ♦ Pipette tips
- ♦ Pipettes: 20µL, 50µL, 200µL
- ♦ Polypropylene tubes (approx. 10mL)
- ♦ Sodium hydroxide solution (1M, NaOH)
- ♦ Hydrochloric acid (conc. HCl)
- ♦ Sodium hypochlorite (2%)
- ♦ pH paper
- ♦ Incubator: 35-37°C

Additional item required when testing for the presence of Enterotoxin-producing Staphylococci:

- ♦ TECRA Staphylococcus Growth Medium

Additional items required when testing directly for the presence of toxin in food:

- ♦ Homogeniser
- ♦ Disposable plastic syringes (approx. 25mL)
- ♦ Absorbent cotton wool
- ♦ Tris buffer (0.25M, pH 8)

**Product Information**

TECRA Product Code	No. of Wells	Max. No. of Tests	Min. No. of Tests
SETVIA48	48	46	1
SETVIA96	96	94	1

**TECRA Products for use with the SET VIA**

TECRA Product	TECRA Product Code	Container Size
TECRA Staphylococcus Growth Medium*	TSGMED500	500g
TECRA Staphylococcal Enterotoxin Identification VIA	SIDVIA72	12 tests

\* TECRA recommends the use of TECRA media, which has been specially developed to maximise the performance of TECRA's range of diagnostic kits and methods.

Your Partner in Rapid Testing



[www.tecra.net](http://www.tecra.net)

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