

TECRA®

STAPHYLOCOCCUS AUREUS VISUAL IMMUNOASSAY

A rapid and specific screening test for the detection of *Staphylococcus aureus* in food, water, environmental samples, raw materials, cosmetic and pharmaceutical products.

Why test your product and production environment for *Staphylococcus aureus*?

- ◆ Contamination of food, cosmetic and pharmaceutical products by *S. aureus* is well documented.
- ◆ Finished product, raw material and production environment contamination by this pathogen has resulted in major product recalls and substantial economic loss.
- ◆ Staphylococcal food poisoning is one of the most common types of foodborne disease worldwide. Food poisoning outbreaks caused by *S. aureus* have involved a wide range of foods including meat, poultry and egg products, bakery products, and milk and dairy products.
- ◆ In the cosmetic and pharmaceutical industries, *S. aureus* contamination of products applied to the skin and around the eyes, is a serious concern.
- ◆ Early detection of product contamination and subsequent corrective action may help to avoid costly consequences.
- ◆ **Note:** Some strains of *S. aureus* produce enterotoxins, which show a high degree of thermal stability when subjected to heat treatments commonly used in food processing to kill viable cells. Therefore, it is advisable that foods be examined for the presence of residual toxin using the TECRA Staphylococcal Enterotoxin Visual Immunoassay (VIA™).
- ◆ The TECRA VIA method makes testing for *S. aureus* fast, simple, reliable and economical.



Why use the TECRA *Staphylococcus aureus* VIA?

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| <p><input checked="" type="checkbox"/> Fast</p> <ul style="list-style-type: none"> ◆ You can screen out negative samples within 26 hours. No need to wait up to 6 days, as with standard cultural methods. ◆ You can ship product sooner based on a rapid TECRA result. | <p><input checked="" type="checkbox"/> Accurate & Reliable</p> <ul style="list-style-type: none"> ◆ Unique high affinity TECRA antibodies give results in which you can have confidence. <p>Sensitivity : 1-5 cfu/25g of sample
Specificity: >99%</p> |
| <p><input checked="" type="checkbox"/> Economical</p> <ul style="list-style-type: none"> ◆ The simplicity of the TECRA <i>Staphylococcus aureus</i> VIA method frees up laboratory time for other tasks and projects. More can be accomplished with the same labor. ◆ Rapid results ensure you can release inventory earlier, reducing holding costs. | <p><input checked="" type="checkbox"/> Flexible</p> <ul style="list-style-type: none"> ◆ Recommended for a wide range of food, cosmetic and pharmaceutical samples. ◆ Depending on your specific needs, the kit can be used manually or automated for large scale testing. |



✓ Simple and Convenient

- ♦ No membrane strip which may become clogged and affect the test result.
- ♦ All reagents provided.
- ♦ Easy-to-read results.
- ♦ Raw materials and finished products can be rapidly screened. A single enrichment broth can be used to screen for both *Pseudomonas spp.* and *Staphylococcus aureus*, using the TECRA Staphylococcus aureus VIA and the TECRA Pseudomonas VIA.

✓ Proven Performance

- ♦ Comparative studies show performance that is at least equivalent to standard cultural methods.
- ♦ List of approvals:
 - Evalutest™ (Food Quality Services, Australia)
 - MAB (Ministry of Agriculture, Brazil)
 - MAF and New Zealand Dairy Board

✓ 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.

Enterotoxin Testing & Identification:

- ♦ The same enrichment broth, used to detect *S. aureus*, can also be tested for pre-formed toxins using the TECRA Staphylococcal Enterotoxin VIA.
- ♦ Individual toxins can be identified using the Staphylococcal Enterotoxin Identification VIA.

Other Materials Required to run the Kit:

- ♦ Serological pipettes (5mL)
- ♦ Pipettes: 20µL, 50µL and 200µL
- ♦ Small screw-cap bottles or tubes (e.g. 5mL)
- ♦ 35-37°C Incubator
- ♦ Boiling water bath or equivalent (100°C) heating device

When testing food:

- ♦ TECRA Staphylococcus Growth Medium
- ♦ Stomacher

When testing cosmetics and pharmaceuticals:

- ♦ Modified Lethen Broth, or
- ♦ Tryptone Soy Broth with 4% Tween

Product Information

TECRA Product Code	No. of Wells	Max. No. of Tests	Min. No. of Tests
STAVIA48	48	46	1
STAVIA96	96	94	1

TECRA products for use with Staphylococcus aureus VIA

TECRA Product	TECRA Product Code	Pack Size
TECRA Staphylococcus Growth Medium*	TSGMED500	500g
Modified Lethen Broth*	MLBMED500	500g
Staphylococcal Enterotoxin VIA	SETVIA48	46 tests
	SETVIA96	94 tests
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.



TECRA International Pty Ltd

13 Rodborough Road, Frenchs Forest NSW 2086, AUSTRALIA
Telephone: +61 2 8977 3000 Facsimile: +61 2 9453 3422
E-mail: enquiries@tecra.net

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Excellence in Rapid Testing