

# TRANSIA<sup>®</sup> PLATE

Listeria monocytogenes

*No cross-reactions*  
*47 h total method time*  
*As sensitive as the ISO method*  
*Easy, robust assay procedure*



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## Listeria monocytogenes

Tougher regulatory standards and the increased reporting of food contamination have awakened the food industry to the need to place greater emphasis on safety, shelf life and cleanliness. To prevent *Listeria* infections, many countries have imposed strict tolerance levels for *Listeria monocytogenes* in food products. The conventional ISO method and other official methods used involve a number of steps and require 3 to 7 days to obtain results.

### TRANSIA PLATE LISTERIA MONOCYTOGENES

The TRANSIA PLATE *Listeria monocytogenes* test is a fast, reliable screening method for the detection of *L. monocytogenes* in food. The TRANSIA test offers a level of sensitivity equal to the standard method but makes detection more rapid with results available in 47 hours. TRANSIA PLATE *Listeria monocytogenes* is based on a three-step, sandwich-type, immunoenzymatic reaction. The solid support of the reaction is a microtitre plate coated with antibodies specific for the extracellular P60 protein excreted by *Listeria monocytogenes*.

### TEST MATRICES

- Seafood
- Vegetables
- Dairy
- Meat products

### TECHNICAL ADVANTAGES

- No cross-reactions with other *Listeria* species
- As sensitive as the ISO method
- Easy, robust assay procedure
- Ready-to-use reagents
- Long shelf life
- Single and multiple testing

#### ORDERING INFORMATION:

LI0600, TRANSIA PLATE *Listeria monocytogenes*,  
1 plate, divisible strips

### FINANCIAL ADVANTAGES

- TRANSIA PLATE *Listeria monocytogenes* requires less labour time per test compared with conventional culture methods and minimises the need for confirmation.
- 47 h total method time

### ENVIRONMENTAL ADVANTAGES

- Minimal consumption of plastics
- Lower waste volumes

### SPECIAL APPLICATIONS

Automated test procedure using the TRANSIA Elisamatic II or T4U system with walk-away comfort.

### PUBLICATIONS

1. Bubert A. et al. Synthetic peptides derived from the *Listeria monocytogenes* p60 protein as antigens for the generation of polyclonal antibodies specific for secreted, cell-free *L. monocytogenes* p60 proteins. App Environ Microbiol, Sept. 1994, 3120-3127.
2. Sorin M-L. et al. *Listeria monocytogenes* detection in food using an ELISA-based method. IAFP Congress, Poster Session, Atlanta, August 2000.

#### **Listeria**

*Listeria* is a bacterial genus including six Gram-positive species: *L. monocytogenes*, *L. ivanovii*, *L. innocua*, *L. welshimeri*, *L. seeligeri* and *L. grayi*. However, only *L. monocytogenes* is a human pathogen. They are widely present in the environment, in the soil, and on plants and animals. Unlike many other foodborne pathogens, *Listeria* has unique grow capabilities even at low refrigerator temperatures. Therefore it is not surprising that listeriosis (the *Listeria* infection) is usually associated with ingestion of milk, cheese, deli meat or vegetable products that have been held at refrigeration temperatures for a long period of time. This serious infection affects primarily pregnant women, newborns, and adults with weakened immune defence and has the highest fatality rate among all foodborne pathogens.

# RAISIO

DIAGNOSTICS

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