

## GeneDisc® Technologies

### For an easy, rapid and reliable identification of *Listeria* species

*Listeria monocytogenes* is an opportunistic foodborne pathogen that can affect a wide range of food products and can cause severe infections with high mortality rate to the elderly, immunodepressed persons and pregnant women. Since *L. monocytogenes* has the ability to grow slowly at refrigerated temperatures, it is a major concern for food companies. Some rare cases of listeriosis related to other *Listeria* spp. have also been reported.

According to MLG 8 and ISO 11290, detection of *Listeria* is based on a two steps procedure consisting of detection/ isolation followed by confirmation.

Conventional confirmation methods used for *Listeria* spp. identification are based on biochemical tests performed from isolated colonies. These methods results are typically obtained within 24 hours and might be ambiguous.

### GeneDisc System Benefits

**Rapid** — Accelerate your control workflow. Result for colony confirmation is obtained in less than 1 hour.

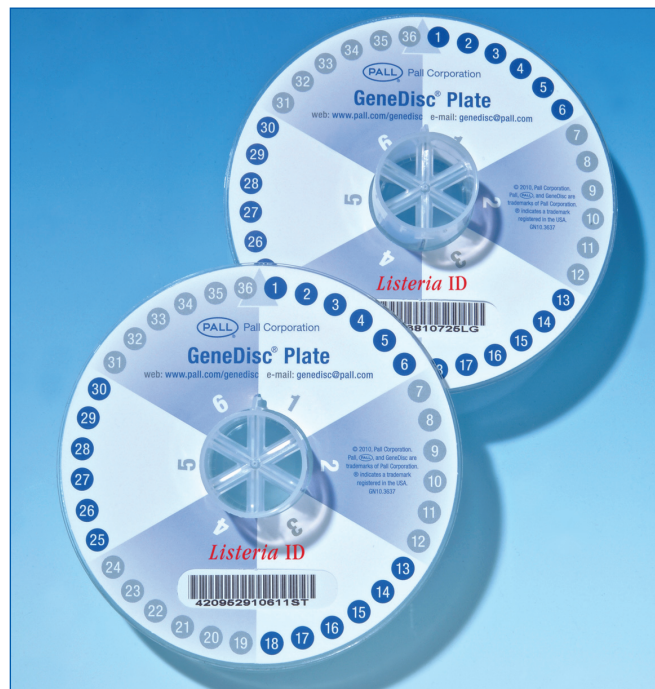
**Easy to use** — GeneDisc solutions are designed for routine use. Implementing PCR (Polymerase Chain Reaction) has never been this easy.

### A Solution Designed For Food Industries

**Easy to read** — The GeneDisc *Listeria* ID method allows a clear discrimination amongst the 6 *Listeria* spp. from isolated colonies on agar plates.

**Flexible** — Designed for use with the main *Listeria* specific agars and chromogenic media.

**Reliable** — AOAC certified method

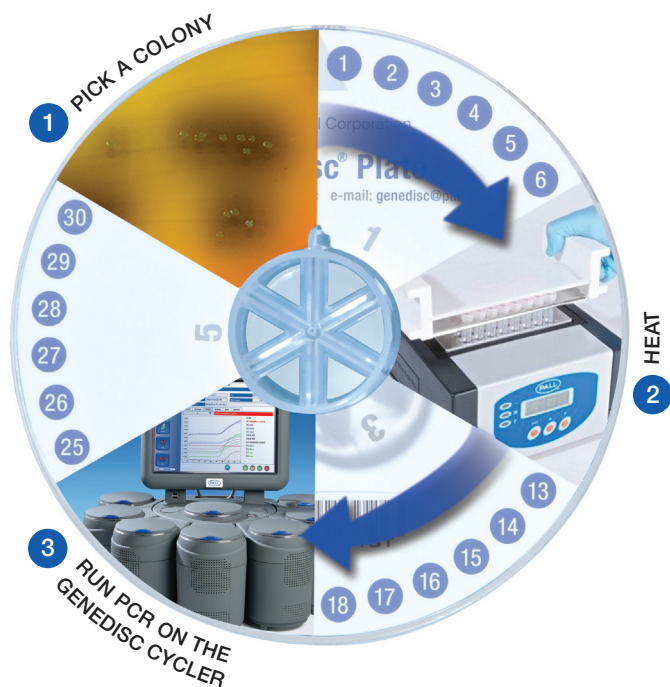


### *Listeria* spp. Identification

Bacteria	Gram + bacilli
Species List	<i>L. monocytogenes</i> <i>L. grayi</i> <i>L. seeligeri</i> <i>L. innocua</i> <i>L. ivanovii</i> <i>L. welshimeri</i>
Major Human Pathogen	<i>L. monocytogenes</i>



## From Colony To Result In As Fast As One Hour



### Technical Information

Sample Preparation Time	< 15 minutes
PCR Cycle Time	< 45 minutes
Total Turnaround Time	< 1 hour
Specificity	Wide range of strains tested for inclusivity and exclusivity
Internal Positive Control Per Sample Analysis	Detects presence of inhibitors in DNA extract sample
Validation	AOAC approved for colony confirmation from all major enrichment media



Pall Corporation

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### Ordering Information

Part Number	Description	Samples/pack
<b>Equipment</b>		
EGDUL1A230 (EU)	GeneDisc Ultra-Lyser	-
EGDUL1A120 (US)		
EGDCV3A	GeneDisc Cycloer Base Unit	-
EGDSV3A	GeneDisc Cycloer Sub Unit	-
<b>Consumables</b>		
PFOOD1100	Extraction Pack Food 1	100
GLISTID106006	GeneDisc <i>Listeria</i> ID	36

We also offer a full product range for pathogen detection in food and water and for spoilage organisms in beverage.

Quantitative tests for pathogens in water (*Legionella*, *E. coli*, *Enterococcus*...) are also available.

For more information including part numbers please contact us.

### Further Readings

- Poster: Desroche, N. *et al.*, Evaluation of the performances of the GeneDisc ID *Listeria* real-time PCR assay for the rapid identification of *Listeria* species.
- Poster: Crowley, E.S. *et al.* A Comparative Evaluation of the GeneDisc® Plate *Listeria* Identification Kit for the Identification and Discrimination of *Listeria* species. IAFF, Rhodes-Island, 2012.

Visit us on the Web at [www.pall.com/genedisc](http://www.pall.com/genedisc)

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