



# Pall GeneDisc® Technologies

For easy, rapid and specific detection of *Salmonella* spp. for the poultry industry

FoodNet Annual Reports show that *Salmonella* spp. is the second highest cause for foodborne diseases and one of the major causes for FDA & FSIS recalls. Therefore, most countries have implemented strict criteria for this pathogen monitoring.

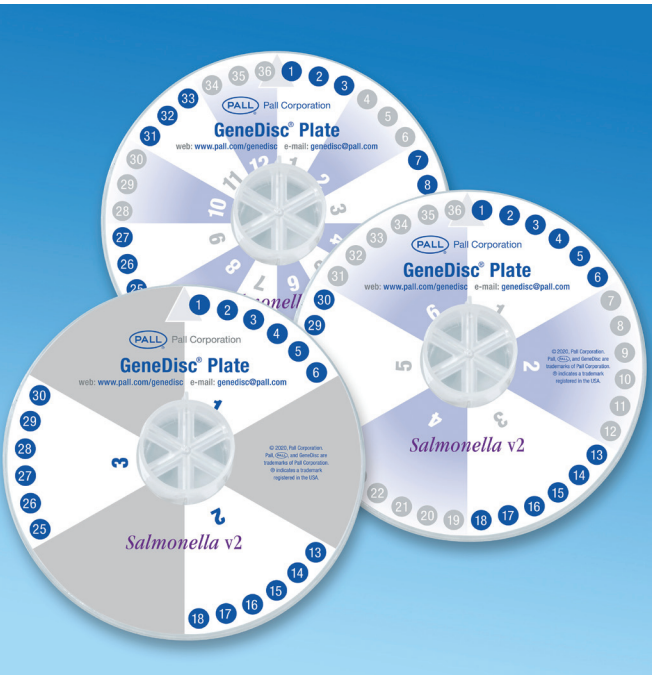
In response to industry concerns, Pall GeneDisc Technologies provides an ideal solution for food processors in need of a reliable control of *Salmonella* spp. and *Campylobacter* associated risks.

## GeneDisc System Benefits

- Rapid** — While culture methods require up to 5 days to obtain results, Pall’s GeneDisc method reduces time to results by 50% for detection and 90% for quantification.
- Easy to use** — Matrix specific protocols are designed for routine use and validated from sample to result.
- High throughput capability** — Simultaneous DNA extractions from one single sample to 96 samples in less than one hour.
- Modular** — System modularity fits your throughput needs: from 3 to up to 96 samples can be simultaneously analyzed.

## A Solution Designed for Food Industries

- In line with MLG 4.10 AOAC** certified methods.
- In line with ISO 6579** certified methods.
- Test multiple pathogens simultaneously** — Analysis of *Salmonella* with *Campylobacter* is available and does not require any additional hands-on time.
- Evaluate product rapidly** — Dedicated application enables industries to guarantee the absence in 25 g of raw or processed meat, 30 mL of poultry carcass rinse, or environmental samples with a time to result in as little as 22 hours.



## Salmonella Identity Card

Bacteria	Gram –, motile enterobacteria
Food Vehicle	Large variety of food especially dairy and egg products, poultry and beef cattle
Disease	Zoonosis (Salmonellosis)
Number of Cases	EFSA reported 5,146 foodborne outbreaks affecting 48,365 people. CDC reported 1.35 million infections, 26,500 hospitalizations, and 420 deaths in the United States every year. WHO reported 137 million people globally falling ill each year including 55 million children under the age of 5 years.

# How the System Works



# Technical Information

Total Turnaround Time	22 hours for detection 2h 30 for quantification
PCR Cycle Time	1 hour
Limit of Detection	5 GU/PCR well
Sample Size for Quantification	Entire poultry carcass 10 g or 25 g of raw products 1 sponge or 1 wipe for environmental samples
Quantification Range	< 1,000 CFU per g of sample or > 1,000 CFU per g of sample
PCR Efficiency (e)	75% < e < 125%
Optimal Recovery	> 50%
Specificity	Wide range of strains tested for inclusivity and exclusivity
Internal Inhibition Control Per Sample Analysis	Detects presence of inhibitors in DNA extract sample

# Ordering Information

Part Number	Description	Samples/pack
Equipment		
EGDCV3A	GeneDisc Cyclor Base Unit	—
EGDSV3A	GeneDisc Cyclor Sub Unit	—
EGDBH48230 (EU)	GeneDisc DryBlock Heater 48	—
EGDBH48120 (US)		
EGDBH96230 (EU)	GeneDisc DryBlock Heater 96	—
EGDBH96120 (US)		
Consumables		
PFOOD1100	Extraction Pack Food 01	100
PFOOD2096	Extraction Pack Food 02	96
GSLMSPP303012	GeneDisc Plate <i>Salmonella</i> v2	36
GSLMSPP306006		36
GSLMSPP312006		72
GCAMPSL103012	GeneDisc Plate <i>Campylobacter</i> & <i>Salmonella</i> v2	36
GCAMPSL106006		36
GCAMPSL112006		72

We also offer a full product range for pathogen detection in food and for spoilage organisms in beverages. Quantitative tests in water for pathogens (*Legionella*) and hygienic indicators (*E. coli*, *Enterococcus*) are also available. For more information including part numbers please contact us.



Pall Corporation

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

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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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