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Nestlé Quality Assurance Center  
Dublin

# Technical Datasheet

**Analysis Name:** *Enterobacteriaceae* Enumeration Petrifilm™

**Method Number:** LI-00.758

**Scope of Application:** Raw materials, line samples, finished products and environmental samples.

**Description:** The 3M Petrifilm™ contains an indicator triphenyltetrazolium chloride to facilitate the reading, and a cold-water soluble gelling agent.

After appropriate sample preparation of the product and incubation at 37°C for 24 hours, colonies are enumerated. Colonies are reported presumptive, unless confirmation is performed.

**Presumptive colony confirmation (by request)**

Presumptive colonies are transferred onto a non-selective agar. Colonies are then further sub cultured and confirmed by appropriate biochemical test.

**Sample Weight  
Required:** 25 g

**Method Reference:** AFNOR Validated Method 3M 01/06 09/97  
37°C incubated for 24±2 hrs., AOAC 2003.01

**Analytical Platform:** 3M Petrifilm™

**Special Information:** EB Petrifilm™ may not be applicable in chocolate and cocoa-based food matrices unless the sample is sufficiently diluted. This is due to the strong coloration of the Petrifilm™ surface area. Additionally, this test is not appropriate for high acid samples and spices.

For presumptive EB however, it must be realized that some Gram-negatives, other than *Enterobacteriaceae*, may be included in the counts (e.g. *Aeromonas* spp., or *Acinetobacter* spp.)



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For direct plate swab variation, only certain dry 1mL stick swabs are applicable. Follow the manufacturer's instructions.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
EB Presumptive Result		CFU/g CFU/mL	<10 CFU/g <1 CFU/mL	
EB Presumptive Result (Environmental)		CFU/Swab	<1 CFU/swab (direct plate) <10 CFU/swab (q-tip/stick) <100 CFU/swab (sponge)	
EB Final Result		CFU/g CFU/mL	< 10 CFU/g <1 CFU/mL	
EB Final Result (Environmental)		CFU/Swab	<1 CFU/swab (direct plate) <10 CFU/swab (q-tip/stick) <100 CFU/swab (sponge)	