



NQAC

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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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	<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	<10 CFU/swab (q-tip/stick) <100 CFU/swab (sponge)	