



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Enumeration of Aerobic Mesophilic Organisms
Aerobic Plate Count Petrifilm™

Method Number: LI-00.701

Scope of Application: Raw materials, line samples, finished products, products intended for feeding of animals, and environmental samples

Description: The 3M Petrifilm™ contains a non-selective culture medium including all components of plate count agar (PCA), triphenyltetrazolium chloride to facilitate the reading, and a cold-water soluble gelling agent. After inoculation with the appropriate dilutions of the analyzed product and incubation at 37°C for 48 hours, colonies are enumerated.

**Sample Weight
Required:** 25 g

Method Reference: NordVal validation. 2003. 3M Petrifilm™ aerobic count plate. 2005-30-5408-00043

Analytical Platform: 3M Petrifilm™

Special Information: Certain lactic bacteria or micrococci may not be detected with this test.

The AC-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.

The AC-Petrifilm™ is not applicable when enzymes like amylase and mannanase are used to improve dissolution of cereal, thickener or flour products, or if the sample contains *Bacillus* liquefying the gel in the Petrifilm™.



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Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
APC Result (37°C)		CFU/g	<10 CFU/g	
APC Result (37°C)		CFU/mL	<1 CFU/mL	
APC Result (Environmental / 37°C)		CFU/swab	<1 CFU/mL <10 CFU/swab (q- tip/stick) <100 CFU/swab (sponge)	