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Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Enumeration of Aerobic Mesophilic Organisms Aerobic Plate Count Pour Plate 30°C

Method Number: LI-00.701

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

Description: Inoculation of a non-selective medium (PCA) using the pour-plate method, with aliquots of the appropriate dilutions of the analyzed product or of the test sample if the product is liquid. Incubation at 30°C for 72 hrs and enumeration of the colonies.

Sample Weight Required: 25 g

Method Reference: ISO 4833:2003: Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of micro-organisms – Colony-count technique at 30°C.

Analytical Platform: Cultural Method

Special Information: A shortened incubation period of 48 ± 2 hours at 35-37°C for all matrices or at 32°C for milk (FDA,2001) is possible. In such cases the equivalence to results obtained at 30°C for 72 hours should be verified. Results may depend on the type of flora (e.g. higher counts at 35-37°C when thermophilic spores are present).

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
APC Result (30°C)		CFU/g	< 10 CFU/g	
APC Result (30°C)		CFU/mL	< 1 CFU/mL	
APC Result (Environmental / 30°C)		CFU/swab	<10 CFU/swab (q-tip/stick)	



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			<100 CFU/swab (sponge)	
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