

Technical Datasheet

Analysis Name:	Enumeration of Aerobic Mesophilic Organisms Aerobic Plate Count Petrifilm™
Method Number	LIBR 056
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 30°C for 72 hours, colonies are enumerated.
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 AOAC Official Method 990.12. Aerobic plate count in foods. Dry rehydratable film (Petrifilm aerobic count plate) method. First action 1990. Final action 1994. Chapter 17, p. 11.
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™.

Analyte Reported	Unit of Measure	Limit of Quantification
<i>TVC Result (30°C)</i>	CFU/g	< 10 CFU/g
<i>TVC Result (30°C)</i>	CFU/mL	< 1 CFU/mL
<i>APC Result (Environmental / 30°C)</i>	CFU/swab	<10 CFU/swab