



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Heterotrophic Plate Count, Membrane Filtration

Method Number: SMEWW 9215D

Scope of Application: Potable Water

Description: A quantitative method estimating the number of live, culturable heterotrophic bacteria in water. 100 mL samples are filtered, and the membrane is placed on one of two mediums: mHPC is incubated at 35°C for 48 +/- 3 hours and R2A is incubated at 22°C for 7 days.

Sample Weight Required: 150 mL

Method Reference: Standard Methods for the Examination of Water and Wastewater, 23rd edition

Analytical Platform: Cultural method

Special Information: For samples expected to have lower numbers (<1 to 10 CFU/mL) of heterotrophic organisms. The lower temperature/longer incubation time for R2A agar may improve recovery of stressed bacteria.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Measurement Uncertainty
HPC Result (35°C)		CFU/100 mL	<1 CFU/100 mL	0.126
HPC Result (22°C)		CFU/100 mL	<1 CFU/100 mL	0.128