

Plasmid DNA for Fecal Indicator Detection and Identification

Art. ID	NIST-2917
Unit	6 tubes, 1 each level
Deliverydetails	No Dangerous Good /not restricted

Description

Designed to help mitigate this issue, NIST-2917 contains 13 genetic markers — known DNA sequences — that can be used to identify a pollution source or estimate the concentration of fecal pollution in a sample. The SRM was constructed from a plasmid, a small, often circular DNA molecule found in bacteria and other cells. A unit of NIST-2917 consists of a box with 6 tubes (Levels). Each Level contains approximately 200 µL of linearized plasmid DNA in 1 × TE buffer pH 8 with 10 ng/µL of yeast tRNA as carrier in a 1.5 mL skirted, screwcap, low-bind, polypropylene, centrifuge vial.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Level 1	Plasmid Copy Number Concentration		5,4 ± 1,0	copy/µL		
Level 2	Plasmid Copy Number Concentration		55,5 ± 3,2	copy/µL		
Level 3	Plasmid Copy Number Concentration		530 ± 14	copy/µL		
Level 4	Plasmid Copy Number Concentration		5314 ± 142	copy/µL		
Level 5	Plasmid Copy Number Concentration		52195 ± 1488	copy/µL		
Level 6	Plasmid Copy Number Concentration		541287 ± 15558	copy/µL		