

Materials List for:

EPA Method 1615. Measurement of Enterovirus and Norovirus Occurrence in Water by Culture and RT-qPCR. Part III. Virus Detection by RT-qPCR

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Materials

Name	Company	Catalog Number	Comments
1.5 ml tube chamber	Diversified Biotech	CHAM-3000	
1 °C cool brick	Diversified Biotech	BRIK-2501	
10x PCR Buffer II and 25-mM MgCl ₂	Life Technologies	N8080130	
-20 °C freezer	VWR	97043-346	Must be a manual defrost freezer
-70 °C or colder freezer	Thermo Scientific	MBF700LSAO-E	
96-well chamber	Diversified Biotech	CHAM-1000	
Absolute ethanol	Fisher Scientific	BP2818-100	
Armored RNA EPA-1615	Asuragen	Custom order	Used for quantifying the RT-qPCR assay
Armored RNA Hepatitis G virus	Asuragen	42024	
Autoclave	Steris	Amsco Lab Series	
Biosafety cabinet	NuAir Laboratory Equipment Supply	Labgard 437 ES	
Bovine serum albumin (BSA)	Affymetrix	10856	Crystalline grade or better
Buffer AVE	Qiagen	1026956	Carrier RNA dilution buffer
Buffer AVL	Qiagen	19073	Extraction buffer
Carrier RNA	Qiagen	Not applicable	Use carrier RNA supplied with Buffer AVL
Centrifuge bottles	Fisher Scientific	05-562-23 or 05-562-26	
Centrifuge rotors	Beckman Coulter	339080, 336380	
Cool safe box	Diversified Biotech	CSF-BOX	
Dithiothreitol (DTT)	Promega	P1171	
LightCycler® 480 Probes Master kit	Roche Diagnostics	4707494001	
Microcentrifuge tubes	Fisher Scientific	02-682-550	Use ribonuclease- and deoxyribonuclease-free tubes with snap caps
Microcide III	Fitzgerald	99R-103	
Microseal 'A' film	Bio-Rad Laboratories	HSA5001	Heat resistant
Microseal 'F' film	Bio-Rad Laboratories	MSA1001	Freezer resistant
Mini-plate spinner	Labnet International	MPS1000	
Multichannel pipette	Rainin	L8-20	
Multi-tube chamber	Diversified Biotech	CHAM-5000	
Optical reaction plate	Life Technologies	4314320	

PCR nucleotide mix	Promega	U1515	
PCR plate	Bio-Rad Laboratories	HSS9601	
PCR-grade water	Roche	3315932001	
Phosphate buffered saline (PBS)	U.S. Biological	D9820	
Plate mixer	Scientific Industries	MicroPlate Genie	
Prionex gelatin	Sigma Aldrich	G0411	
QIAamp DNA Blood Mini Kit	Qiagen	51104	Includes Buffers AW1 (first wash buffer), AW2 (second wash buffer), AE (elution buffer); ethanol must be added to Buffers AW1 and AW2 before use; Do not use Buffer AL supplied with the kit
Quantitative PCR thermal cycler	Life Technologies	4351405	
Random primer	Promega	C1181	
Reagent Reservoir	Fisher Scientific	21-381-27E	
Refrigerated centrifuge	Beckman Coulter	367501	
RNase Inhibitor	Promega	N2515 or N2615	
ROX reference dye	Life Technologies	12223	
SuperScript II or III Reverse Transcriptase	Life Technologies	18064-022 or 18080044	
Surgical gloves	Fisher Scientific	19-058-800	
Thermal cycler	Life Technologies	4314879	
Trisma base	Sigma Aldrich	T1503	
Vivaspin 20 centrifugal concentrator units	Sartorius-Stedim	VS2022	