

Materials List for:

Alternative *In Vitro* Methods for the Determination of Viral Capsid Structural Integrity

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Materials

Name	Company	Catalog Number	Comments
Plate-Based Binding Assay for Evaluating Loss of Higher Order Norovirus Capsid Structure			
96-well, medium-binding polystyrene EIA plate	Fisher (Costar)	07-200-36	
Lid for 96-well plate	Thermo Fisher	3098	
Paraffin film (Parafilm)	Thermo Fisher	PM999	
1x PBS (pH 7.2)	Life Technologies	20012-050	
Polysorbate 20	Sigma-Aldrich	P9416	
1x PBS (pH 7.2) + 0.05% Polysorbate 20	N/A	N/A	
Purified, assembled human norovirus GII.4 capsids	N/A	N/A	
Individual 0.2 ml PCR tubes	Genesee Scientific	22-154G	
2 thermocyclers	Bio-Rad	1861096	
Tabletop mini centrifuge	Fisher Scientific	12-006-901	
Skim milk solids	Thermo Fisher	LP0031B	
Synthetic histo-blood group type A disaccharide, biotinylated	Glycotek	01-017	
Biotinylated aptamer M6-2 (stock concentration 100 µM in nuclease-free water): 5'-/5Biosg/ AGTATACGTATTACCTGCAGCTGG-3'	Integrated DNA Technologies	N/A	TCAGCCCGGAGAGCGATATCTCGGAGATCTTGC
Streptavidin-horseradish peroxidase conjugate (ELISA grade), We use Life Technologies SNN2004	Life Technologies	SNN2004	
3,3',5,5'-tetramethylbenzidine (TMB) substrate, room temperature	Thermo Fisher	50-76-00	
1 M phosphoric acid	N/A	N/A	
Microplate reader capable of reading 450 nm	Tecan	Infinite m200 Pro	
Name	Company	Catalog Number	Comments
Analysis of Plate-Based Assay Results			
Microsoft Excel or similar program	N/A	N/A	
Name	Company	Catalog Number	Comments

Dynamic Light Scattering Experiments			
Zetasizer ZSP, or similar particle size analysis instrument	Malvern Instruments	N/A	
Vortex	Fisher Scientific	02-215-365	
Quartz cuvette	Hellma	104-002-10-40	
Small volume disposable cuvette (to reduce VLP use)	Malvern Instruments	ZEN0040	
Name	Company	Catalog Number	Comments
Transmission Electron Microscopy Sample Preparation			
Nickel electron microscopy grids with carbon support film	Ladd Research	10880-100	
Self-closing reverse electron microscopy tweezers	Ted Pella	5372-NM	
Qualitative filter paper	Sigma-Aldrich (Whatman)	WHA1002055	
Glass petri dishes	Sigma-Aldrich	BR455743	
100 mM stock HEPES solution (pH 7.2)	N/A	N/A	
2% uranyl acetate	N/A	N/A	