Vivid™ antigen clarification media

Specially designed for antigen test sample clarification and purification.

Improved performance in IVD applications.

Vivid ACM (antigen clarification melt blown)

Melt blown material for PCR sample purification

Vivid™ ACM is constructed of polypropylene fibers in a depth structure that provides high surface area and increased particulate holding capacity. The proprietary manufacturing process used to produce this melt blown media allows for the creation of multiple filtration zones with internal voids that result in the efficient use of the depth structure. These media function similarly to asymmetric membranes, capturing particulate within the structure ensuring efficient clarification of viscous samples and lysates. The concern over fiber shedding is also minimized due to the continuous nature of the fibers.

Typical characteristics

Material	Polypropylene
Nominal pore size	100.0 µm
Average basis weight	8.45–9.94 g/ft^2

Vivid ACG (antigen clarification glass fiber)

Graded glass fiber material for POCT sample clarification

This specialized glass fiber medium is comprised of a laminated glass fiber matrix with a highperformance acrylic binder to a polyester support. The material is specifically designed for sample clarification and is ideal for preparation of sputum, nasopharyngeal, and saliva samples. The graded nature of this material allows for the processing of highly viscous samples and/or large sample volumes without compromising flow rates. The acrylic binder provides adequate strength for handling during use or in a manufacturing environment.

Typical characteristics

Material	Glass fiber with acrylic binder
Nominal pore size	Graded 2–20 µm
Average basis weight	3.2 g/ft^2

Application process

- Sample clarification and preparation for sputum, nasopharyngeal, and saliva samples
- Compatible with lateral-flow, cartridge PCR, and traditional PCR design
- Removal of contaminants from swab sample before applying to IVD test

Complementary materials

Leukosorb™

Leukosorb™ is a filtration medium for use in assays that require the reduction or isolation of heterologous and possibly activated leukocytes that can potentially interfere in the analysis. Additional applications include a synthetic adsorptive matrix (SAM) for nasosorption. Nasosorption is a technique which uses a SAM swab to adsorb mucosal lining fluid from the nasal cavity.

CytoSep

Composed of a patented blend of natural and synthetic fibers, CytoSep membranes are designed to separate plasma from whole blood. The media is intended for use in applications where less than 100 µL of whole blood would be applied to the surface of the material. The single layer nature of the media retains the red blood cells on the surface while the plasma, along with the platelets and leukocytes, move through the fibrous matrix. Plasma can be separated using the CytoSep membrane either vertically and laterally and can be optimized by the thickness of the material selected. The composite material does not contain binders or chemicals that may interfere with analyte measurements in diagnostic assays.

Vivid PSM

Vivid plasma separation membrane is a highly asymmetric membrane designed specifically for separating plasma from whole blood samples. Its asymmetry enables the capture of whole cells for the generation of cell-free plasma, negating the need for cell removal by centrifugation. Vivid plasma separation membrane offers key features such as high plasma yield, low analyte binding, low hemolysis, and device integration.

Vivid LFNC

With quality assured manufacturing and defined lot-to-lot consistency, Vivid lateral-flow nitrocellulose (LFNC) membranes offer reliable media for the development and implementation of lateral flow diagnostic point-of-care tests.

Nitrocellulose membranes are the heart of lateral-flow assays that require highly consistent measurements for both wicking rate and thickness. Variations in either characteristic can have detrimental effects on assay sensitivity, reproducibility, and reagent consumption. Vivid LFNC membranes are manufactured to ensure that these parameters are tightly controlled with coefficients of variation (CV) between 5% and 10%.

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For local office contact information, visit cytiva.com/contact

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