

NEWS on diagnostics

2021 Volume 3

Application and Resource Library



Welcome to the latest News on Diagnostics! This edition looks at the technical resources we have available for all things diagnostics. Whether you're looking for technical support with a particular technique, or looking to develop a new method, our application and resource tech note, video, and webinar library pulls all the relevant information into one place, with clickable links for ease of navigation.

IMMUNOASSAYS

Whether you are developing a new assay, scaling up to prepare for manufacturing, mass producing an IVD kit, or just exploring alternative options for your applications, our vast selection of fit-for-use products and innovative support services can accelerate your time to market. We offer the quality, consistency and documentation necessary for every step of your IVD commercialization process.


Note: You may need to scroll to the bottom of the webpage to fully access these resources.

CLIA

Webinars

 [CLIAs Based on Magnetic Beads](#)

Application/Technical Notes

 [Development of a Chemiluminescent Immunoassay \(CLIA\) Using Estapor® Magnetic Microspheres](#)

 [Procedure for Conjugation of Alkaline Phosphatase to Antibodies and Other Proteins](#)

 [Antibody Purification Using Protein A, Protein G, or Protein L Agarose](#)

 [Enzymatic Assay of Peroxidase \(EC 1.11.1.7\)](#)



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Lateral Flow

Webinars

-  [Applying AnteoBind™ Activated Estapor® Europium Microspheres for Development of Fluorescent Lateral Flow Immunoassays](#)
-  [Optimized Lateral Flow Test Strips: Design Considerations for Optimal Performance](#)
-  [Optimized Lateral flow assays using dyed and fluorescent Estapor® microspheres](#)
-  [Development of Latex Enhanced Immunoassays](#)

Other resources

-  [Performance of Estapor® Microspheres and Hi-Flow™ Plus Membranes in a Lateral Flow Assay for Human Chorionic Gonadotropin \(hCG\)](#)
-  [Bed Volumes of SureWick® Pad Materials](#)

Application Notes

-  [Getting Started with IVD Lateral Flow Assay Development](#)
-  [IVD Lateral Flow – Sample, Conjugate and Absorbent Pad Basics](#)

ELISA

Webinars

-  [The Secret to ELISA-based Diagnostic Test Success: Know Your Water](#)
-  [The Secret to ELISA-based Diagnostic Test Success: Know Your Antibody](#)
-  [The Secret to ELISA-based Diagnostic Test Success: Know Your Detection Method](#)

Other resources

-  [ELISA Troubleshooting Guide](#)

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IVD manufacturers appreciate the flexibility of customization we offer based on our extensive global in-house manufacturing experience and comprehensive network of suppliers.

This includes:

Bulk and Custom Packaging: Supply of bulk raw materials in configurable pack sizes. Manufacture of custom formulations in a variety of formats, including aqueous or ethanolic solutions, dry powder blends and tableting options.

Custom Reagent Formulations: Custom manufacturing of raw materials, including the further development of existing products or de novo synthesis.

Custom QC: Custom QC on existing or new materials, to ensure that raw materials are tested with your intended application in mind.

Case studies

- Accelerating Time to Market Using Custom Lateral Flow Membranes
- Custom Manufacturing and Kitting for Next Generation Sequencing Index Adaptors
- A Move to Outsourcing - Access Scale-Up Capacity and Custom Kit Development
- 10 Strategic Considerations When Outsourcing Production of *In Vitro* Diagnostics
- Outsourcing for Efficiency - The Need for Increased Manufacturing Capacity
- Custom Blood Typing - Increase Market Share by Selecting the Right OEM Part
- Outsourcing for Security - Sustainable Supply Chain for Consumables
- Outsourcing Security - The need to ensure consistency and continuity of supply in IVD Kit Manufacturing
- Hazardous Material Handling - Streamlining Complex Regulatory and Compliance Issues

CMO videos

- Contract Manufacturing Solutions

Risk Mitigation

Risk mitigation is a core focus for IVD manufacturers, driven by commercial best practices and regulatory requirements. Assessment of critical raw material performance, supply and quality is important to minimize risk. Risk must be assessed and mitigated throughout the entire IVD commercialization process.

Case studies

- EU Regulation on *In Vitro* Diagnostics
- Supply Chain Risk Mitigation
- Preparing for Unannounced Audits
- ISO 13485 & Supplier Management

Note: You may need to scroll to the bottom of the webpage to fully access these resources.

Molecular diagnostics

From PCR to CRISPR to Next-Gen Sequencing, molecular tools are becoming increasingly valuable in the development, assessment, and production of *in vitro* diagnostic assays. Optimizing your techniques can take considerable time and we have the molecular biology support and expertise to speed your assay research, development, and production.

Webinars

 [CRISPR Tools and Technologies for Accelerating Research](#)

 [Library Preparation Methods and Application Specific Kits](#)

 [NGSO \(Next-Gen Sequencing Oligos\) for Consistent and Proper Sequence Assembly](#)

 [NGS Application: Integrated Services for Microbiome Discovery](#)

EMERGING diagnostics technologies

Microfluidic devices and systems for diagnostic assays

30 years after the introduction of the concept of the “miniaturized total chemical analysis system (μ TAS)” and about 20 years after the gold digger’s frenzy about how this technology would revolutionize all aspects of chemical, biological or diagnostic applications, it is worth having a look at how this technology has matured (or gone awry). Here we provide you with a broad overview of all aspects of microfluidic devices and systems as an enabling technology for new product development in diagnostics and the life sciences.

 [Microfluidic Devices and Systems: A Two-Part Webinar Series](#)

