

# Avantor™ Performance Materials

is extending the reach of reliable diagnostic solutions to help improve healthcare outcomes and quality of life for a changing world.

## Performance Diagnostics for a Changing World

Avantor™ Performance Materials' global diagnostics business has a unique mission: Improve the quality and affordability of diagnostic tools to help benefit the health and well-being of people around the world. We offer:

- *In vitro* reagents and instruments for hematology, clinical chemistry, immunology – ELISA, CLIA and rapid diagnostics tests, histology, microbiology and genetic testing
- Consumables and instruments for life sciences research in academia, government and pharmaceutical labs

## Two World-Class Diagnostics Brands

Today, our performance diagnostics solutions include:

**J.T.Baker® clinical reagents** — for over 30 years, solutions for hematology and histology reagents engineered for maximum performance.

**BeneSphera™ diagnostics solutions** — providing proven and affordable diagnostic products and systems for applications including hematology, clinical chemistry, immunology, microbiology, and life science.



## About Avantor™ Performance Materials

Avantor is a global leader in performance materials and chemistries in high-growth specialty chemical markets — including laboratory products, pharmaceuticals, electronic materials and diagnostics. We have seven global manufacturing facilities with certified capabilities such as ISO, cGMP and Six Sigma. Our global diagnostics offering is built on a strong foundation: a passion for quality, innovation and reliability in performance materials.

## Our Global Resources

**Strong, in-house research & development capabilities** — including the ability to develop customized solutions

**Global manufacturing capability** — seven manufacturing facilities on three continents with certified capabilities (such as ISO, cGMP, Six Sigma) for a strong, responsive global supply chain

**Quality infrastructure and culture** — a quality culture that includes rigorous testing of every raw material, packaging materials and every batch and accelerated stability and real time testing

**Extensive sales & service network** — more than 250 distributors in 100 countries worldwide, plus fully staffed customer service centers providing product support, application support, technical support and training.

**Regulatory compliance with the following certifications** — ISO 13485:2003, ISO 9001:2008, ISO 14001:2004 and European IVD Directive 98/79/EC (CE).



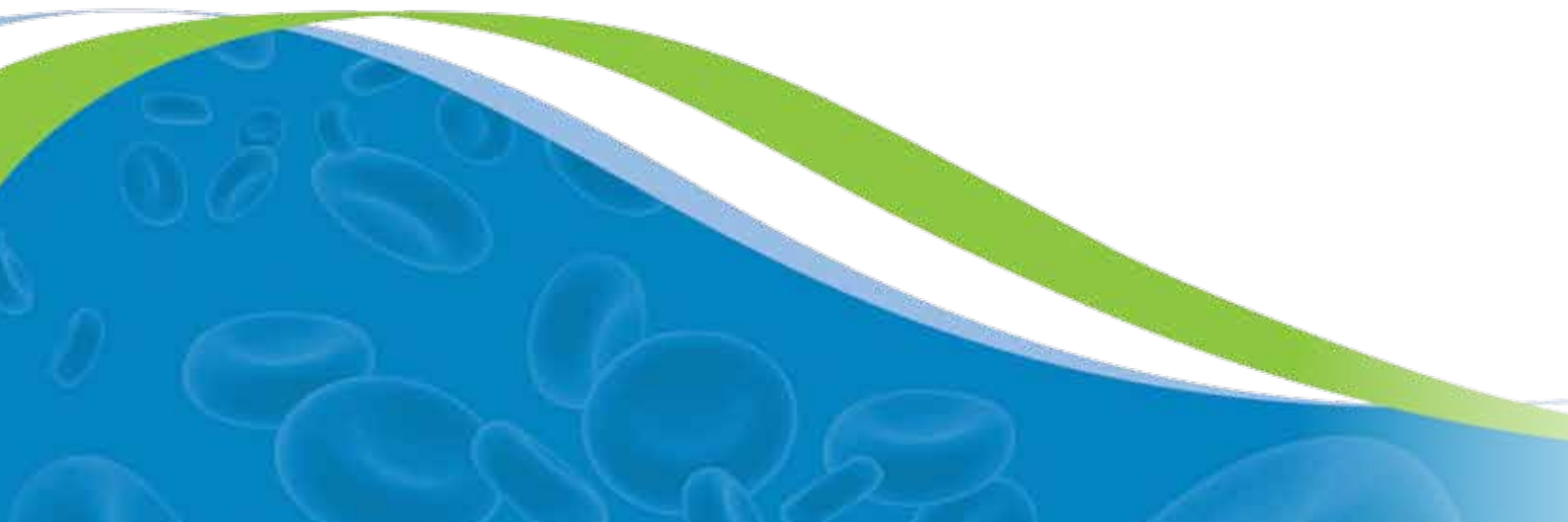
Avantor™ Performance Materials is committed to advancing the quality and effectiveness of rapid test diagnostic tools and processes<sup>1</sup>. We provide a comprehensive line of proven, cost-effective tests for the specific qualitative or semi-quantitative detection of many analytes, such as antigens and antibodies, produced at facilities certified for excellence in quality control. Customers across the world have counted on BeneSphera™ brand rapid test products to deliver efficient, reliable results.

BeneSphera™ brand rapid tests are used for quick, simple diagnosis of a range of common diseases, including Hepatitis B and Malaria. After the specimen is added onto the testing card, the easy-to-understand results can be interpreted after two to fifteen minutes. With BeneSphera™ brand rapid card tests, it is even possible to simultaneously test for one or several strains on the same strip<sup>2</sup>.

### Avantor offers the following rapid diagnostics tests :

- Hepatitis B Rapid Card Test
- Hepatitis C Rapid Card Test
- Troponin I Rapid Card Test
- Malaria Rapid Card Test
- Syphilis Rapid Card Test

Avantor maintains the highest quality control standards for the diagnostics products and systems that we offer. All our critical products are evaluated and approved by the National Institute of Biologicals, recognized under India's Ministry of Health and Family Welfare.





## Rapid Diagnostics Tests (RDT)

BeneSphera™ brand rapid test cards help facilitate the two most important goals of disease management: the early detection of parasites and the early treatment of infection. Rapid diagnostic tests are designed for use at the Point-Of-Care (POC) and can be adapted for use in low-resource settings. These tests are highly sensitive, specific, and stable at high temperatures in addition to offering a shorter testing time for fast results.

### Hepatitis B Rapid Card Test

The BeneSphera™ brand Hepatitis B rapid card test uses an immunochromatographic assay with a combination of polyclonal and monoclonal antibodies immobilized on the solid surface and monoclonal antibodies conjugated to colloidal gold dye. This test enables the reliable detection of HBsAg and all the subtypes of this rapidly mutating virus.

### Hepatitis C Rapid Card Test

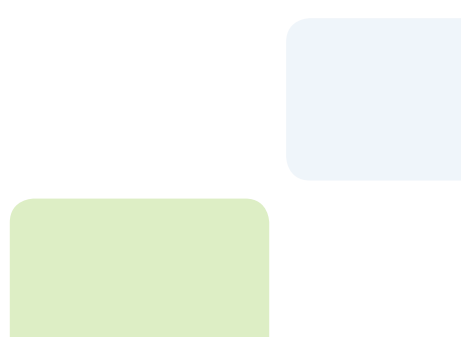
The BeneSphera™ brand Hepatitis C rapid card test uses an immunochromatographic assay with colloid gold conjugate and recombinant HCV proteins to selectively detect antibodies of HCV in serum or plasma. The recombinant HCV proteins used in the test kit are encoded by the genes for both structural and non-structural proteins to avoid nonspecific cross-reactivity and to increase the sensitivity of the HCV antibody test.

### Troponin I Rapid Card Test

The BeneSphera™ brand Troponin I rapid card test is a highly sensitive and specific test used for the detection of cardiac Troponin I in human serum, plasma, or whole blood.

<sup>1</sup> Not all products are available in all regions. Contact your Avantor representative for product availability in your geography.

<sup>2</sup> All rapid diagnostic tests are for screening purposes and verification of results is recommended.



**Malaria Rapid Card Test**

A range of BeneSphera™ brand Malaria rapid card tests are available for the detection of different species of the Plasmodium parasites that are responsible for malaria infections in humans: P.falciparum and P.vivax – the most prevalent – as well as P.ovale and P.malariae.

**Syphilis Rapid Card Test**

The BeneSphera™ brand syphilis rapid card test is based on the principle of double antigen sandwich immunoassay and is used for the detection of the T.pallidum antibody in human serum and plasma. This rapid, direct binding test is used for the visual detection of syphilis antibodies and aids in the diagnosis of syphilis infection.

**BeneSphera™ brand Rapid Card Tests**

Product*	Description
Hepatitis B	Rapid card test for the detection of hepatitis-B surface antigen in human serum and plasma
Hepatitis C	Rapid card test for the detection of antibodies to HCV in human serum and plasma
Troponin I	Rapid card test for the detection of Troponin I specific antigen in human serum and plasma
Malaria	Rapid card tests for the detection of different species of the Plasmodium parasites: P.falciparum, P.ovale, and P.malariae
Syphilis	Rapid card test for the detection of T.pallidum antibody in human serum and plasma

Key Benefits

- Highly sensitive and specific
- User-friendly format that provides easy-to-interpret results
- Tests take less than 20 minutes to perform
- No additional components required other than those provided with the testing kits
- Qualitative results are read visually without any equipment
- Long term stability over a wide range of climates
- No specific medical expertise required for the interpretation of results



Phillipsburg, NJ 9001:2008 & 14001:2004  
Paris, KY 9001:2008  
Mexico City, Mexico 9001:2008  
Deventer, the Netherlands 9001:2008, 14001:2004 & 13485:2003

Gliwice, Poland 9001:2008 & 17025:2005  
Selangor, Malaysia 9001:2008  
Dehradun, India 9001:2008, 14001:2004 & 13485:2003  
Mumbai, India 9001:2008 & 17025:2005



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## About Avantor™ Performance Materials

Avantor Performance Materials manufactures and markets high-performance chemistries and materials around the world under several respected brand names, including the J.T.Baker®, Macron Fine Chemicals™, Rankem™, BeneSphera™ and POCH™ brands.

Avantor products are used in a wide range of industries. Our biomedical and life science solutions are used in pharmaceutical production, laboratory research for academic, industry and quality control, and in medical lab testing. Our electronics materials products are used in the manufacturing of semiconductors. Based in Center Valley, Pennsylvania (USA), Avantor is owned by an affiliate of New Mountain Capital, LLC.

For additional information please visit [www.avantormaterials.com](http://www.avantormaterials.com) or follow [www.twitter.com/avantor\\_news](https://twitter.com/avantor_news)

## Ordering Information and Assistance

### Customer Service and Technical Service

#### India

1201-1206, Pinnacle Business Tower  
Shooting Range Road, Surajkund, Faridabad - 121009, India  
TEL: +91-129-4267000, 4267100, 4267200  
FAX: +91-129-4267299, 4267199  
E-MAIL: [diagnostics.india@avantormaterials.com](mailto:diagnostics.india@avantormaterials.com)

#### Netherlands

Teugseweg 20, 7418 AM Deventer, the Netherlands  
TEL: +31-570-687500  
FAX: +31-570-687574  
E-MAIL: [avantor.emea@avantormaterials.com](mailto:avantor.emea@avantormaterials.com)  
[www.avantormaterials.com](http://www.avantormaterials.com)

### ASK Avantor™

Our Web site features ASK Avantor™, which includes live chat capabilities with customer service representatives.  
[www.avantormaterials.com/askavantor](http://www.avantormaterials.com/askavantor)



## Corporate Headquarters

Avantor Performance Materials, Inc.  
3477 Corporate Parkway  
Suite #200  
Center Valley, PA 18034  
USA

## Worldwide Locations

- China
- India
- Korea
- Malaysia
- Mexico
- Netherlands
- North America
- Poland
- Taiwan

For contact information at these locations, visit  
[www.avantormaterials.com/WorldwideDirectory](http://www.avantormaterials.com/WorldwideDirectory)