



Product Overview

HybriDetect Product Series

- ▼ Develop Your Own Test System
- ▼ Point-of-Need Use
- ▼ Universal
- ▼ Easy Setup

Overview of our HybriDetect Product Series

▼ Lateral Flow Tests	REF
• HybriDetect • HybriDetect 2T • HybriDetect Cassette • HybriDetect Variant	MGHD 1 MGHD2 1 MGHC 1 MGHDV 1
▼ DNA Amplification - RPA	REF
• HybriDetect RPA basic Kit	MGHRB 1
▼ DNA Amplification - LAMP	REF
• HybriDetect LAMP Hot Start Kit • HybriDetect LAMP Hot Start Polymerase • HybriDetect LAMP Kit • HybriDetect LAMP Polymerase	HLHSK 1 HLHSP 1 HLK 1 HLP 1
▼ Buffer Solutions	REF
• HybriDetect Chase Buffer • HybriDetect Chase Buffer A • HybriDetect Chase Buffer B	MHCB 1 MHCBA 1 MHCBB 1
▼ Evaluation Platform	REF
• myilab research - lateral Flow Reader	MYILABR 1

What is HybriDetect?

Milenia HybriDetect is an **universal lateral flow development platform** for researchers all over the world to design their individual rapid test.

It is a ready-to-use, universal test strip (dipstick) based on lateral flow technology using gold particles. The dipstick can be used to develop qualitative or semi-quantitative rapid test systems for a wide range of analytes, such as:

- Gene Amplification Products
- DNA
- RNA
- Proteins
- Peptides
- Antibodies
- Metabolites
- Cells
- ect.



Lateral Flow Tests



DNA Amplification

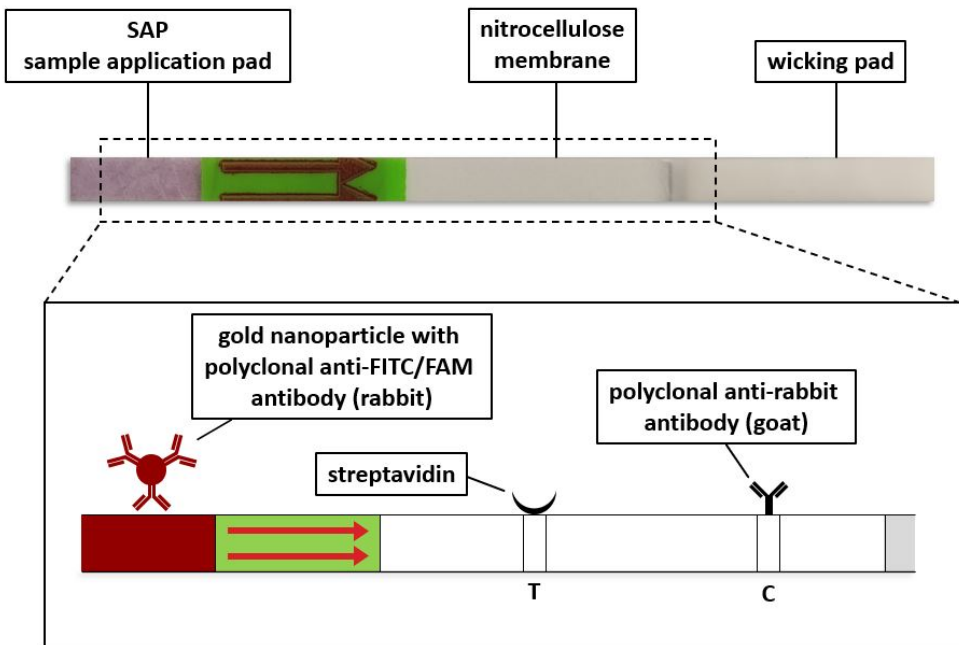


Buffer Solutions

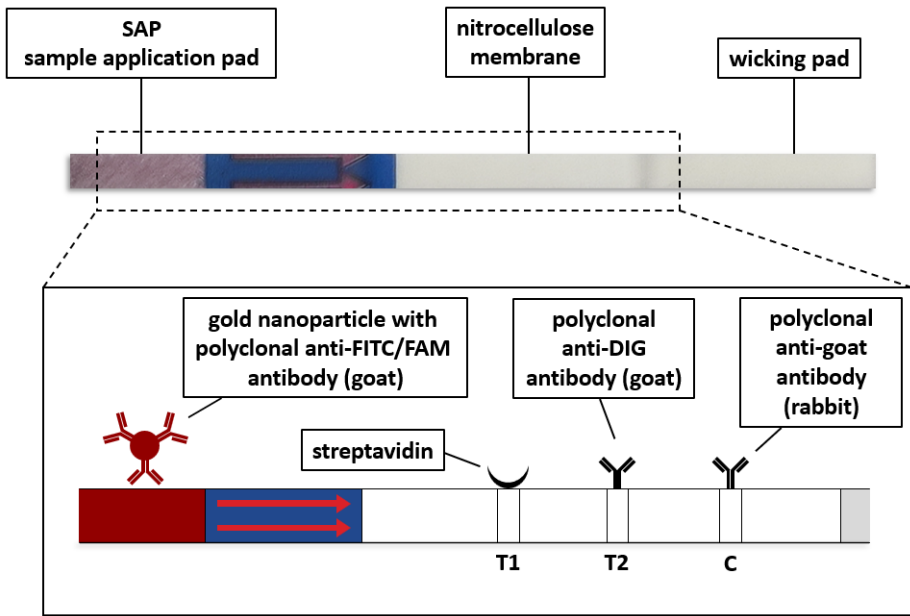


Evaluation Platform

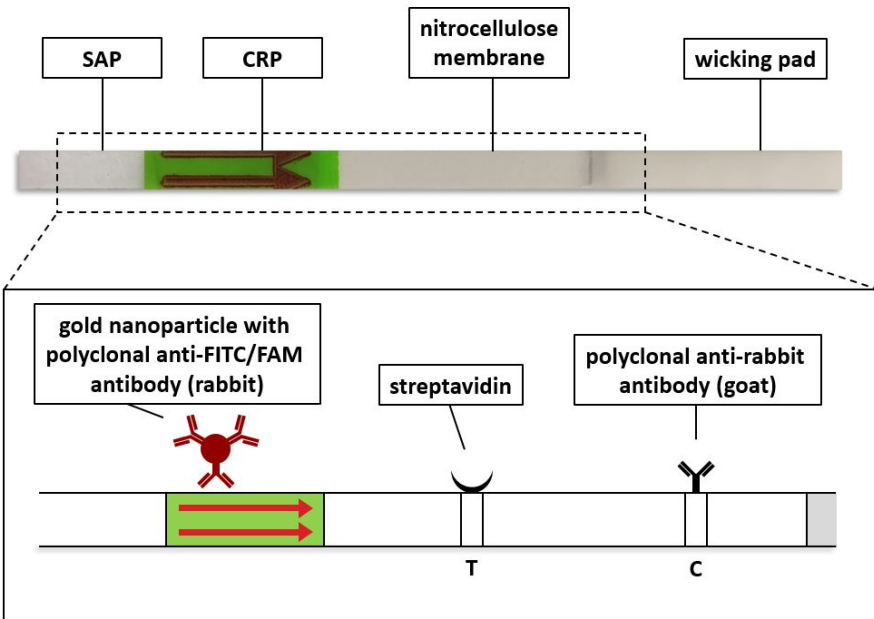
▼ Lateral Flow Tests

HybriDetect REF MGHD 1	
Short Description	HybriDetect is a universal lateral flow test strip for the detection of analytes (proteins, genomic amplicons) labelled with fluorescein (FAM or FITC) and Biotin.
Tests/Kit	100
Possible Analytes	DNA/RNA Proteins
Lines	1 Test Line 1 Control Line
Detection of	Biotin-FAM/FITC-labelled analyte
Structure	 The diagram illustrates the structure of the HybriDetect lateral flow test strip. It consists of three main sections: a SAP (sample application pad) on the left, a nitrocellulose membrane in the middle, and a wicking pad on the right. A dashed box provides a magnified view of the nitrocellulose membrane. Within this membrane, there are two test lines labeled 'T' (Test) and 'C' (Control). The 'T' line is associated with a 'gold nanoparticle with polyclonal anti-FITC/FAM antibody (rabbit)' and 'streptavidin'. The 'C' line is associated with a 'polyclonal anti-rabbit antibody (goat)'. The diagram shows the flow of the sample from the SAP pad through the membrane, where it interacts with the antibodies and nanoparticles to produce a visible line.
Sensitivity	1 fmol (Biotin/FAM) labelled analyte
Compatible Techniques	Often: PCR, RPA, LAMP, CRISPR/Cas Rare: RCA, RAA, Aptamers, CPA, MIRA
Compatible Buffers	MHCB 1 / MHCBA 1 / MHCBB 1
Compatible Products	HLK 1 / HLHSK 1 / HLP 1 / HLHSP 1 / MYILABR 1

▼ Lateral Flow Tests (continued)

HybriDetect 2T REF MGHD 2 1	
Short Description	HybriDetect 2T is a universal lateral flow test strip for simultaneous detection of two different analytes (proteins, genomic amplicates) labelled with fluorescein (FAM or FITC), Biotin and Digoxigenin.
Tests/Kit	100
Possible Analytes	DNA/RNA Proteins
Lines	2 Test Line 1 Control Line
Detection of	Biotin-FAM/FITC-labelled analyte Digoxigenin-FAM/FITC-labelled analyte
Structure	 The diagram illustrates the structure of the HybriDetect 2T test strip. It is composed of three main sections: a SAP (sample application pad), a nitrocellulose membrane, and a wicking pad. A detailed view of the nitrocellulose membrane shows three test lines: T1, T2, and C. T1 is labeled with streptavidin, T2 with polyclonal anti-DIG antibody (goat), and C with polyclonal anti-goat antibody (rabbit). A gold nanoparticle with polyclonal anti-FITC/FAM antibody (goat) is shown binding to the streptavidin on T1.
Sensitivity	5 fmol (Biotin/FAM) labelled analyte 5 fmol (Digoxigenin/FAM) labelled analyte
Compatible Techniques	Often: PCR, RPA, LAMP Rare: RAA, Aptamers, CPA, MIRA, CRISPR/Cas
Compatible Buffers	MHCB 1 / MHCBA 1 / MHCBB 1
Compatible Products	HLK 1 / HLHSK 1 / HLP 1 / HLHSP 1 / MYILABR 1

▼ Lateral Flow Tests (continued)

HybriDetect Cassette		REF	MGHC 1
Short Description	HybriDetect Cassette is a universal lateral flow cassette for the detection of analytes (proteins, genomic amplicons) labelled with fluorescein (FITC or FAM) and Biotin.		
Tests/Kit	20		
Possible Analytes	DNA/RNA Proteins		
Lines	1 Test Line 1 Control Line		
Detection of	Biotin-FAM/FITC-labelled analyte		
Structure			
Sensitivity	1 fmol (Biotin/FAM) labelled analyte		
Compatible Techniques	Often: PCR, RPA, LAMP, CRISPR/Cas Rare: RCA, RAA, Aptamers, CPA, MIRA		
Compatible Buffers	MHCB 1 / MHCBA 1 / MHCBB 1		
Compatible Products	HLK 1 / HLHSK 1 / HLP 1 / HLHSP 1 / MYILABR 1		

▼ Lateral Flow Tests (continued)

HybriDetect Variant		REF	MGHDV 1
Short Description	The HybriDetect Variant is an offer for all researchers working with our HybriDetect test strips, who might need a modification of those. Therefore, we offer the customization of the test strips to your specific needs.		
Tests/Kit	100		
Minimum Order Quantity (MOQ)	8 Kits		
Possible Analytes	Typically DNA/RNA or Proteins		
Lines	Adjustable		
Detection of	Labelled analyte(s)		
Modifications already done	• test strips without gold conjugate • adaption of the test and control line positions • additional test line(s) • immobilization of ssDNA on the NC-membrane or gold • width of the test strip (3 mm, 4 mm, 5 mm, ...) • length of the test strip • supply cards (60 x 300 mm) instead of strips • reversed test strip (streptavidin- gold conjugate) • adaption of buffer components		
Sensitivity	Depending on modification and application		
Note!	Please contact us, so we can discuss the feasibility of your idea. The pricing varies depending on the type and complexity of the adjustments.		

▼ DNA Amplification - RPA

HybriDetect RPA basic Kit		REF	MGHRB 1
Short Description	HybriDetect RPA basic Kit contains a ready-to-use RPA (recombinase polymerase amplification) mix for easy and fast assay development.		
Reactions/Kit	96		
Possible Analytes	DNA		
Sensitivity	Depending on the assay setup (primer/probe, target, template, matrix)		
Evaluation	• Lateral Flow Strip • Agarose Gel Electrophoresis		
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1 / MYILABR 1		

▼ DNA Amplification - LAMP

HybriDetect LAMP Hot Start Kit		REF	HLHSK 1
Short Description	HybriDetect LAMP Hot Start Kit contains a ready-to-use LAMP (loop mediated isothermal amplification) mix with hot start function for easy and fast assay development.		
Reactions/Kit	100		
Possible Analytes	DNA		
Sensitivity	5 molecules of target DNA		
Evaluation	• Lateral Flow Strip • Agarose Gel Electrophoresis • Fluorescence		
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1 / MYILABR 1		

HybriDetect LAMP Hot Start Polymerase		REF	HLHSP 1
Short Description	HybriDetect LAMP Polymerase kit contains single components to develop and adjust your own LAMP (loop mediated isothermal amplification) mix with hot start function.		
Reactions/Kit	100		
Possible Analytes	DNA		
Sensitivity	3 molecules of target DNA		
Evaluation	• Lateral Flow Strip • Agarose Gel Electrophoresis • Fluorescence		
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1 / MYILABR 1		

▼ DNA Amplification - LAMP (continued)

HybriDetect LAMP Kit		REF	HLK 1
Short Description	HybriDetect LAMP Kit contains a ready-to-use LAMP (loop mediated isothermal amplification) mix for easy and fast assay development.		
Reactions/Kit	100		
Possible Analytes	DNA		
Sensitivity	5 molecules of target DNA		
Evaluation	• Lateral Flow Strip • Agarose Gel Electrophoresis • Fluorescence		
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1 / MYILABR 1		

HybriDetect LAMP Polymerase		REF	HLP 1
Short Description	HybriDetect LAMP Polymerase kit contains single components to develop and adjust your own LAMP (loop mediated isothermal amplification) mix.		
Reactions/Kit	100		
Possible Analytes	DNA		
Sensitivity	5 molecules of target DNA		
Evaluation	• Lateral Flow Strip • Agarose Gel Electrophoresis • Fluorescence		
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1 / MYILABR 1		

▼ Buffer Solutions

HybriDetect Chase Buffer REF MHCB 1	
Short Description	The HybriDetect Chase Buffer is a basic buffer for the evaluation of HybriDetect Lateral Flow tests and works well for most applications.
Volume	10 mL / Bulk
Regular Part of the Kit	MGHD 1
Optimized for Evaluation of	Basic buffer: works well for most applications
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1

HybriDetect Chase Buffer A REF MHCBA 1	
Short Description	The HybriDetect Chase Buffer A works specifically well for the evaluation of PCR amplicons with our HybriDetect Lateral Flow tests but is suitable for many other applications as well.
Volume	10 mL / Bulk
Optimized for Evaluation of	PCR
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1

HybriDetect Chase Buffer B REF MHCBB 1	
Short Description	The HybriDetect Chase Buffer B works specifically well for the evaluation of RPA and LAMP amplicons with our HybriDetect Lateral Flow tests but is suitable for many other applications as well.
Volume	10 mL / Bulk
Regular Part of the Kit	MGHD2 1
Optimized for Evaluation of	RPA, LAMP
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1

▼ Evaluation Platform

myilab research		REF	MYILABR 1
Short Description	The myilab research reader allows the user to carry out a desktop computer independent, objective measurement of specific Lateral Flow Assays from Milenia Biotec GmbH.		
Handling	Intuitive and easy to use design		
Measurement Time	15 seconds		
Data Presentation	• Results are shown immediately on screen • Export of results via e-mail as CSV file		
Compatible Products	MGHD 1 / MGHD2 1 / MGHC 1		

▼ Contact

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Stay informed, follow us!



You can also contact us via the [contact form](#).

