

Whatman FUSION 5™

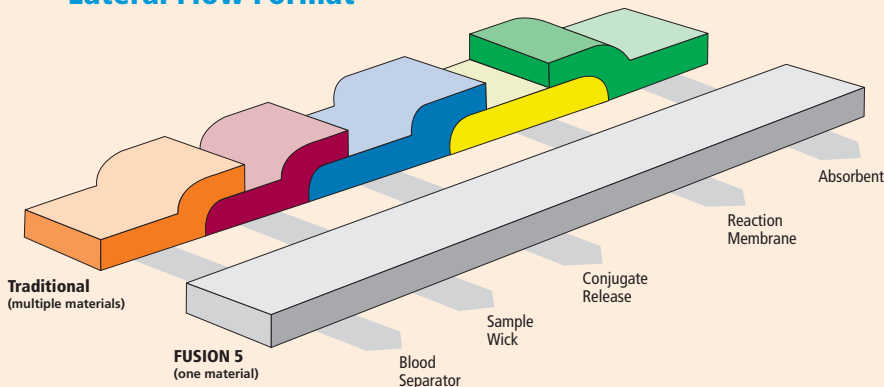
One Material, Five Functions



For the first time, all the functions of a lateral flow strip can be performed on a single material

Rapid test developers have always faced the problem of selecting lateral flow component materials and then getting them to perform effectively together in a test. Glass fiber, Polyester, Nitrocellulose and Cellulose—where do you start and which materials do you choose? Now there's a solution. Based on our proprietary FUSION (single layer matrix) Technology, FUSION 5™ performs all the functions of a lateral flow strip on a single material.

FUSION 5 vs. Traditional Lateral Flow Format



Features and Benefits

- Faster, easier test development.
- Naturally hydrophilic. No blocking required.
- Optimize only one material.
- Eliminate component contact issues.
- High test sensitivity. Low background due to low protein binding characteristics of material.
- Greater reliability. A single material helps ensure consistent performance.
- Fast flowing. Single layer porous material with wicking rates under 40 seconds for a 4 cm strip.
- Make manufacturing easier, faster and more efficient. Helps your company speed products to market.
- QC only one material.
- Simplify purchasing.

The Five Functions of FUSION 5™

With only one material to optimize, test development time is shortened and greatly simplified. And FUSION 5 can be used for a wide range of tests, helping you lower development costs and streamline manufacturing.

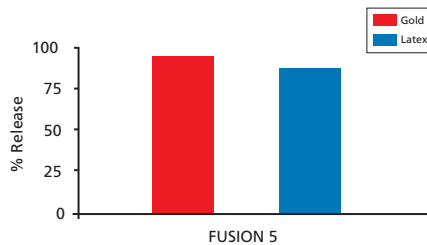
Blood Separator

% Available to Test*	FUSION 5
Volume Serum	86%
Total Protein*	98%
IgG*	99%
Cholesterol*	101%

*Versus spun serum.

FUSION 5 offers highly efficient blood separation with no analyte interference.

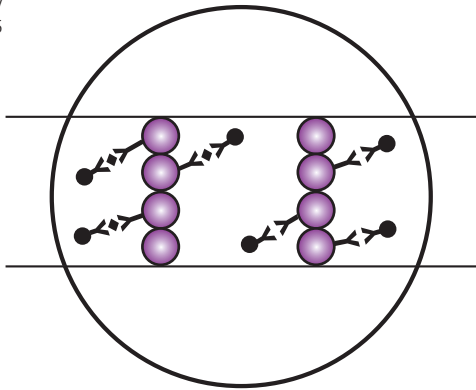
Conjugate Release



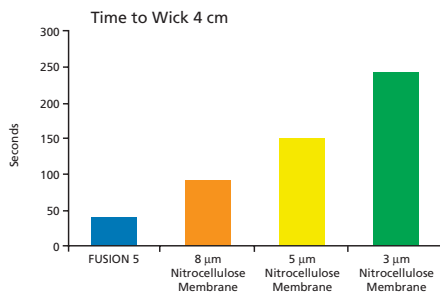
FUSION 5 offers excellent release with both latex and gold conjugates.

Reaction Membrane

When beads of approximately 2 µm are applied to FUSION 5 they bind. Capture reagents bound to the immobilized latex beads combine with conjugate and analyte to give intense capture lines.

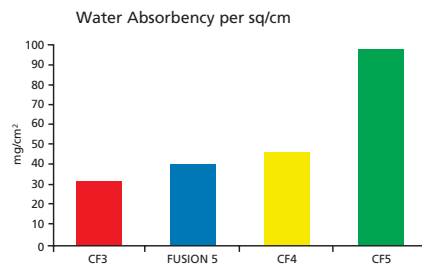


Sample Wick



FUSION 5 shows superior sample wicking with no loss of assay sensitivity when compared to other materials.

Absorbent



FUSION 5 offers performance comparable to industry standards.

TYPICAL TEST DATA

Thickness (µm @ 53 KPa)	Klemm Wicking (7.5 cm)	Max Pore Size (µm)	Water Absorption (mg/cm²)	Particle Retention (µm)	% Release of Gold Conjugate	% Release of Latex Conjugate	% of Available Serum Obtained
370	2:40 min/sec	11.0	40	2.3	>94	>83	86



Whatman Quality

Whatman is a global leader in separations technology and is known in the scientific community for providing innovative Life Science products and solutions. Our instinct for simplification accelerates the rate of discovery, reduces costs and saves time. In order to focus on the unique needs of our customers, Whatman is organized into four business development units: Analytical Chemistry, Diagnostics, Genomics & Proteomics and Medical Devices. For more information, visit www.whatman.com.

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