

RAPID TEST (LATERAL FLOW) products

These versatile immuno-based tests enable rapid target detection in the lab or in the field. CytoDiagnostics' high-quality nanoparticles possess unique optical properties allowing sensitive and selective test results to be read with the naked eye.

We have created pre-optimized rapid lateral flow (LF) rapid tests for targets ranging from nucleic acids to immunoglobulins, along with pre-prepared assay components such as nanoparticle conjugates and pre-saturated conjugate pads.

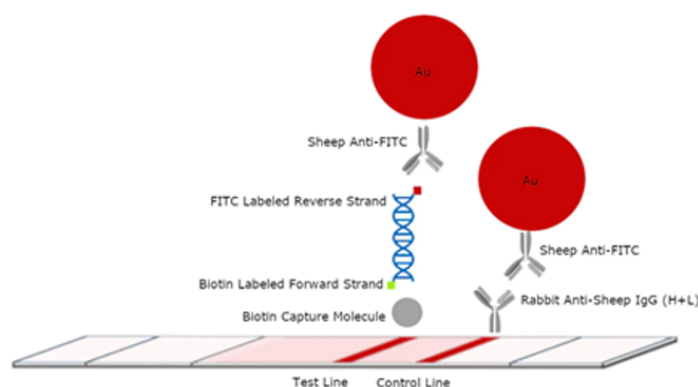
APPLICATIONS

- Antibody/protein production
- Detection of immunoglobulins of interest
- Quality control of nanoparticle conjugates
- Rapid water quality testing
- Disease marker screening
- Point of care detection
- Detection of PCR products

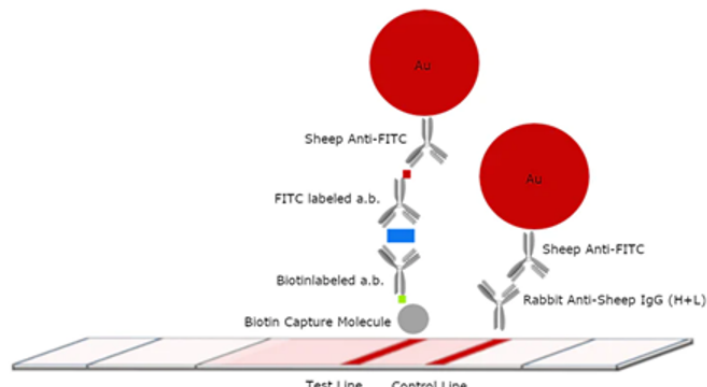
PROPERTIES

- Both partial LF assay components and fully assembled dipsticks available to suit customer needs
- Low background signal & excellent selectivity
- 5-15 min assay running time
- Target quantification:
 - Either qualitative or semi-quantitative with the naked eye
 - Quantitation available with band intensity analysis
- Sensitivity:
 - Detect immunoglobulins/protein antigens in the range of 0.015 – 20 µg/mL
 - Detect single/double stranded DNA/RNA from 0.1 – 150 nM concentrations
- Products stable when stored as directed for months

Detection of Amplified DNA



Detection of an Antigen Using Biotin and FITC Labeled Antibodies





APPLICATION	KIT	BENEFITS
Mouse/Human/Rabbit IgG Expression Verification	Mouse/Human/Rabbit IgG Fc Lateral Flow Dipstick Assay Kit SKU: LF-014-10, LF-015-10, LF-016-10	<ul style="list-style-type: none">• Completely pre-assembled, requires only sample in solution• Stable species-specific conjugate and membrane prepared for you
Detecting presence of IgGs in column eluent fractions	Mouse/Human/Rabbit IgG Fc Lateral Flow Dipstick Assay Kit SKU: LF-014-10, LF-015-10, LF-016-10 or Protein A/G Gold Conjugate Impregnated Conjugate Pads for Lateral Flow SKU: LF-001-05, LF-004-05	<ul style="list-style-type: none">• Completely pre-assembled, requires only sample in solution• Stable species-specific conjugate and membrane prepared for youor• Pre-prepared, stable protein A/G nanoparticle conjugates pre-optimized for release from conjugate pads• Apply pad to any lateral flow membrane.• General IgG detection applicability
Create customer's own covalently linked antibody nanoparticle conjugate for LF	NHS/Maleimide Activated Gold/Silver/Urchin Nanoparticle Kit Selected SKUs (further sizes also available): Gold: CGN5K-40-1, MG5K-40-1 Silver: SN5K-40-1 Urchin: GUN10K-100-1, MUG10K-100-1	<ul style="list-style-type: none">• Allows any antibody/protein with available amine/thiol moieties to be quickly turned into a conjugate for LF testing.• No need for pre-activation• Covalent conjugates yield more stability and specificity/decreased assay background
Create customer's own passive antibody nanoparticle conjugate for LF	Gold Nanoparticle Conjugation Optimization Kit SKU: GO-40-100, GO-TEM-200	<ul style="list-style-type: none">• Allows any antibody/protein to be optimized as a passive conjugate for LF testing.• Passive conjugates typically yield higher protein loading and assay sensitivity
Perform quality control on customer's own nanoparticle conjugates	Conjugation QC Lateral Flow Dipstick Kit SKU: LF-018-10	<ul style="list-style-type: none">• Determines not just protein loading but functionality in an LF based test.• Works for passive and covalent conjugations using all of CytoDiagnostics' nanoparticles
Use high quality conjugates to bind common antigens in LF	Gold/Silver/Urchin Conjugates (Passive or Covalent) Selected SKUs (further sizes also available): Passive Gold: AC-40-01 to AC-40-29 Covalent Gold: ACC-40-04 Silver: SC-40-01 to SC-40-05, SC-40-18 Urchins: GUAC-100-01 to GUAC-100-05, GUAC-100-18 to GUAC-100-21	<ul style="list-style-type: none">• Pre-optimized for functionality in dipstick LF assays• Many common antibody conjugates available
Detection of PCR/other DNA Products	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none">• Detects any single/double stranded sequence with FITC and Biotin labeled terminuses.• Easily prepared by using FITC/Biotin labelled forward/reverse primers.• Much faster/simpler than gel-based detection
Generic antigen detection	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none">• Detects any antigen using FITC/biotin labeled antibodies as a sandwich.• Eliminates need for antigen-specific lateral flow strip/conjugate optimization
General protein expression verification	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none">• Detects any antigen using FITC/biotin labeled antibodies as a sandwich.• Eliminates need for antigen-specific lateral flow strip/conjugate optimization
Determining viability of antibody sandwich pairs	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none">• Rapidly determine if an antibody pair is viable for further immunological assay development.• Eliminates need for striping and conjugation optimization