



# CYTO GROUP

## 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.

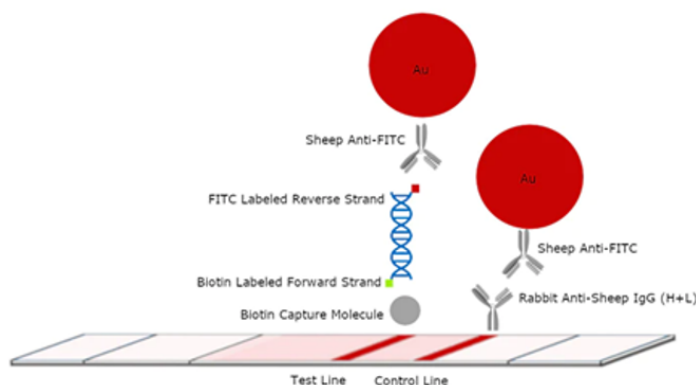
### APPLICATIONS

- 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

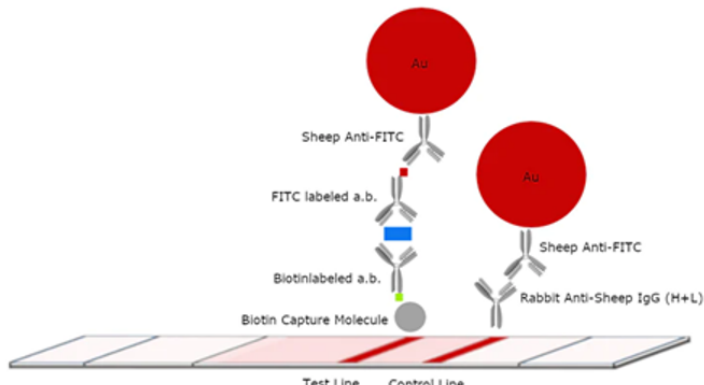
### PROPERTIES

- 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



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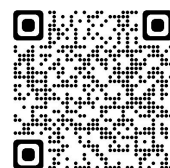
we offer a  
full product  
guarantee



outstanding  
technical  
support



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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"> <li>• Completely pre-assembled, requires only sample in solution</li> <li>• Stable species-specific conjugate and membrane prepared for you</li> </ul>
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"> <li>• Completely pre-assembled, requires only sample in solution</li> <li>• Stable species-specific conjugate and membrane prepared for you</li> <li>or</li> <li>• Pre-prepared, stable protein A/G nanoparticle conjugates pre-optimized for release from conjugate pads</li> <li>• Apply pad to any lateral flow membrane.</li> <li>• General IgG detection applicability</li> </ul>
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"> <li>• Allows any antibody/protein with available amine/thiol moieties to be quickly turned into a conjugate for LF testing.</li> <li>• No need for pre-activation</li> <li>• Covalent conjugates yield more stability and specificity/decreased assay background</li> </ul>
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"> <li>• Allows any antibody/protein to be optimized as a passive conjugate for LF testing.</li> <li>• Passive conjugates typically yield higher protein loading and assay sensitivity</li> </ul>
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"> <li>• Determines not just protein loading but functionality in an LF based test.</li> <li>• Works for passive and covalent conjugations using all of Cytodiagnostics' nanoparticles</li> </ul>
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"> <li>• Pre-optimized for functionality in dipstick LF assays</li> <li>• Many common antibody conjugates available</li> </ul>
Detection of PCR/other DNA Products	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none"> <li>• Detects any single/double stranded sequence with FITC and Biotin labeled terminuses.</li> <li>• Easily prepared by using FITC/Biotin labelled forward/reverse primers.</li> <li>• Much faster/simpler than gel-based detection</li> </ul>
Generic antigen detection	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none"> <li>• Detects any antigen using FITC/biotin labeled antibodies as a sandwich.</li> <li>• Eliminates need for antigen-specific lateral flow strip/conjugate optimization</li> </ul>
General protein expression verification	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none"> <li>• Detects any antigen using FITC/biotin labeled antibodies as a sandwich.</li> <li>• Eliminates need for antigen-specific lateral flow strip/conjugate optimization</li> </ul>
Determining viability of antibody sandwich pairs	Universal Lateral Flow Assay Kit SKU: LF-019-10	<ul style="list-style-type: none"> <li>• Rapidly determine if an antibody pair is viable for further immunological assay development.</li> <li>• Eliminates need for striping and conjugation optimization</li> </ul>

