PRODUCT DATA SHEET

Human IgG Fc Lateral Flow Assay Kit

Catalog No. LF-016-10

Assay Kit Description

The Human IgG Fc Lateral Flow Assay Kit is a 20-minute assay used for the detection of human IgG Fc in cell culture media, and purified protein samples.

Common applications include monitoring expression levels of recombinant antibodies and tracking of human IgG Fc-tagged proteins during purification.

Kit Components

- 10 Lateral Flow Dipsticks
- 15 mL Sample Dilution Buffer
- 1.5 mL Lateral Flow Assay Buffer

Storage

Store at 2-8° C. Stable for at least 3 months if stored as specified.

Product Safety and Handling

This product is for R&D use only, not for use in diagnostic procedures. Please review the safety datasheet (SDS) available online for proper safety and handling procedures.

Sample Dilution

Assay working range: 0.020-10 μg/ml of Human IgG

Note that the assay can detect outside of this range but it is not recommended for use below 0.020 μg/ml or above 10 μg/ml.

If the expected concentration of human IgG is known, dilute the sample to be in the range of 0.025-0.5μg/ml using the supplied Sample Dilution Buffer for optimal results.

If concentration is unknown, use a starting dilution of 1-1000X for cell culture supernatant samples.

Proper dilution of the sample to the working range of the assay is essential for avoiding false negatives. Testing of multiple dilutions may be required for an unknown sample.

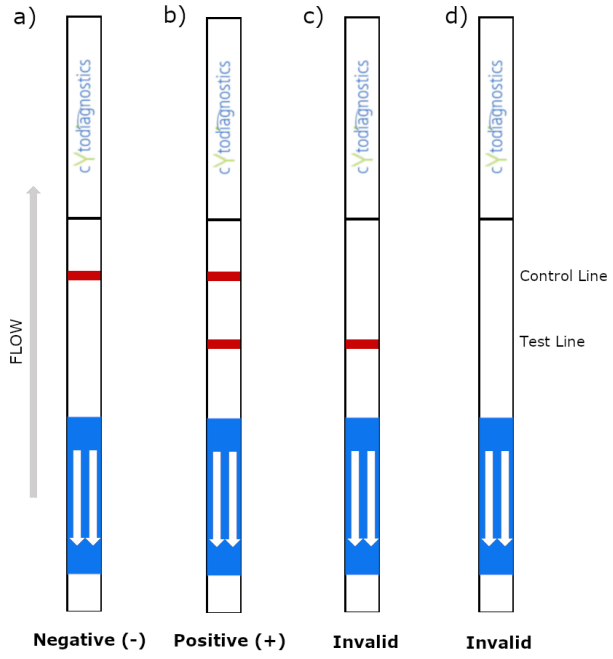

Figure 1. *Possible lateral flow assay test outcomes. A valid test is either negative (a, control line visible) or positive for human IgG Fc (b, control and test lines visible). Invalid tests show only the test line (c) or no red lines (d) after assay completion.*

Test Procedure

1. Transfer 100μl of Lateral Flow Assay buffer into a well of a microtiter plate
2. Transfer 50μl of diluted sample into the well with Lateral Flow Assay Buffer.
3. Place a lateral flow dipstick with the arrows pointing downwards into the sample.
4. Incubate for 20 minutes.
5. Remove the lateral flow dipstick from the well and read test outcome.

   A positive test will display two red lines (figure 1b) and a negative test will display one red line (figure 1a).

   Strips showing no lines (figure 1d), or only the lower test line (figure 1c), are invalid and should be repeated.

919 Fraser Drive Unit 11, Burlington, ON, L7L 4X8, Canada
Tel: 866-344-3954 Fax: 289-204-9100
www.cytodiagnostics.com

Table I. Reagent Compatibility

Reagent	Compatible Concentration
NaCl	≤ 1M
Glycerol	≤ 10%
Triton X-100	≤ 1%
NP-40	≤ 1%
EDTA	≤ 5mM
SDS	≤ 0.2%

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