



Iso-Gold™ Rapid Mouse-Monoclonal Isotyping Kit, 5 tests

Cat. #: ISOT02-005

Kit Contents

- **Isotyping Cassettes** – 5 pouches, each containing two cassettes. Each pouch contains a cassette to detect IgG₁, IgG_{2a}, and IgG_{2b}, and a cassette to detect IgG₃, IgA, and IgM.
- **Sample Diluent Buffer** – 25 mL

Storage

Kit is shipped at ambient temperatures. Upon receipt, store kit at 2-8°C.

Description

The Iso-Gold™ Rapid Mouse-Monoclonal Isotyping Kit is a 5-minute lateral-flow assay for class and subclass determination of monoclonal antibodies. The assay is performed by adding a properly diluted tissue culture supernatant or mouse ascites sample to the sample well on the cassette. The embedded gold conjugates in the cassette form specific class- and subclass-soluble complexes with the antibodies in the sample. These complexes travel the length of the membrane and are detected on the antibody impregnated membrane. Results are in the form of red lines that indicate the antibody isotype or subclass.

Procedure

1. Sample Preparation: Proper sample dilution is essential for optimal results.

<i>Mouse ascites fluid</i>	Dilute 1:8000 in Sample Diluent Buffer and vortex to mix. If sample concentration is known, dilute to 100 ng/mL.
<i>Cell/tissue culture supernatant</i>	Dilute cell culture/supernatant fluid 1:100 in Sample Diluent Buffer and vortex to mix. A final concentration of ≥ 100 ng/mL is recommended. If concentration of supernatant is unknown, test a range of dilutions until isotype lines are visible.

2. Before opening a pouch, remove it from refrigerator and equilibrate to room temperature.
3. Open pouch containing cassettes and add 150 μ L of diluted sample to the sample well in each cassette. Be certain cassettes are on a flat surface.
4. Wait 5-10 minutes for colored lines to appear and immediately evaluate results.
5. A successful test will result in a red line at the “C” or control location and a darker band at one of the isotypes. This indicates the monoclonal isotype class or subclass.

Note: Additional weaker red lines might appear, indicating the presence of host serum immunoglobulins or multiple hybridoma clones.

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Troubleshooting

Problem	Possible Cause	Solution
Control line is not detected after applying sample	Sample did not flow, invalid test	Ensure proper loading and correct volume of sample in cassette well
		Rerun assay with new isotyping cassette
Control line appears, but no isotype lines appear	Sample does not contain antibody	Verify sample contains antibody by another test (e.g. ELISA or Western Blot)
	Sample is diluted too much or culture yields too low	Dilute sample 10X less and retest
Multiple isotype lines detected	Sample not sufficiently diluted	Dilute sample an additional 1:10 to 1:100 and retest
	Sample contains antibody from multiple sources	Dilute sample an additional 1:10 to 1:100 and retest. The darkest band is the isotype of the most abundant antibody in the sample
	Myeloma cell line used in hybridoma production secretes immunoglobulin	
	Test was allowed to proceed longer than 10 minutes	Evaluate results within 10 minutes of adding sample to cassette well

Product Safety and Handling

Please review the Safety Datasheet (SDS) available online for proper safety and handling procedures.

Related Products

KSOT03-010	Iso-Gold™ Rapid Mouse Monoclonal Isotyping Kit, 10 tests
KSOT03-005	Iso-Gold™ Rapid Mouse Monoclonal Isotyping Kit, 5 tests
ISOT02-010	Iso-Gold™ Rapid Mouse Monoclonal Isotyping Kit, 10 tests
MISOT-010	Iso-Gold™ Rapid Mouse Antibody Isotyping Kit, 10 tests
RISOT-010	Iso-Gold™ Rapid Rat Antibody Isotyping Kit, 10 tests
HISOT-010	Iso-Gold™ Rapid Human Antibody Isotyping Kit, 10 tests
SDB-025	Sample Diluent Buffer, 25 mL

Warranty

These products are warranted to perform as described in their labeling and in BioAssay Works®, LLC literature when used in accordance with instructions. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THIS EXPRESSED WARRANTY, AND BIOASSAY WORKS, LLC DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR PARTICULAR PURPOSE. BioAssay Works', LLC sole obligation and purchaser's exclusive remedy for breach of this warranty shall be, at the option of BioAssay Works, LLC, to repair or replace the products. In no event shall BioAssay Works, LLC be liable for any proximate, incidental or consequential damages in connection with the products. Not for resale without express authorization.

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