



PRODUCT INSERT

IsoQuick Kit for Mouse Monoclonal Isotyping

IgG Strip – IgG1, 2a, 2b, 3
IgA/M Strip – IgA, IgM
K/L Strip – Kappa/Lambda

RS-200 – IsoQuick Kit 5 (5 strips of each)

Also refer to the enclosed laminated QuickGuide for sample prep, instructions, and interpretation of results.



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IsoQuick Kit for Mouse Monoclonal Isotyping

Kit Storage

IsoQuick Strips can be stored at room temperature, or refrigerated for a longer shelf life. Note the shelf life on the kit box. Do not open desiccated canister until ready to use test strips.

Precautions and Notes

- This kit is designed to screen for presence or absence only, and is not meant to be quantitative.
- As with all tests, it is recommended that results be confirmed by an alternate method when necessary.
- The assay has been optimized to be used with the protocol provided in the kit. Deviation from this protocol may invalidate the results of the test.
- Warning: a strong positive result may safely be interpreted in as little as 2 minutes after sample addition. It is not safe, however, to interpret negative results prior to 5 minutes.
- Protect all components from hot or cold extremes of temperature when not in use.

Limited Warranty

EnviroLogix Inc. ("EnviroLogix") warrants the products sold hereunder ("the Products") against defects in materials and workmanship when used in accordance with the applicable instructions for a period not to extend beyond a product's printed expiration date. If the Products do not conform to this Limited Warranty and the customer notifies EnviroLogix in writing of such defects during the warranty period, including an offer by the customer to return the Products to EnviroLogix for evaluation, EnviroLogix will repair or replace, at its option, any product or part thereof that proves defective in materials or workmanship within the warranty period.

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EnviroLogix does not warrant against damages or defects arising in shipping or handling, or out of accident or improper or abnormal use of the Products; against defects in products or components not manufactured by EnviroLogix, or against damages resulting from such non-EnviroLogix made products or components. EnviroLogix passes on to customer the warranty it received (if any) from the maker thereof of such non-EnviroLogix made products or components. This warranty also does not apply to Products to which changes or modifications have been made or attempted by persons other than pursuant to written authorization by EnviroLogix.

THIS WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of EnviroLogix shall be to repair or replace the defective Products in the manner and for the period provided above. EnviroLogix shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise. Under no circumstances, whether based on this Limited Warranty or otherwise, shall EnviroLogix be liable for incidental, special, or consequential damages.

This Limited Warranty states the entire obligation of EnviroLogix with respect to the Products. If any part of this Limited Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.

Highlights:

- Results in 5 minutes or less
- Conveniently packaged in 5 or 25 strips/kit
- Ready to use
- Test for IgG1, IgG2a, IgG2b, and IgG3 isotype subclasses
- Can be used alone or with other IsoQuick Strips—in the same prepared sample—for customized results

IgG Strip

Intended Use

These IsoQuick Strips are designed to detect and identify mouse IgG1, IgG2a, IgG2b, and IgG3 isotype subclasses in cell culture supernatant, ascites, or purified antibody. Optimum detection range is 0.1 to 4 micrograms per mL, with detection of as little as 10 nanograms per mL. This kit is designed for research purposes only. For use in matrices other than those listed, please contact Technical Service.

How the Test Works

Each IsoQuick Strip has an absorbent pad at each end. The protective tape with the arrow indicates the end of the strip to insert into the reaction vial. The sample will travel up the membrane strip and be absorbed into the larger pad at the top of the strip. The portion of the strip between the protective tape and the absorbent pad at the top of the strip is used to view the reactions as described under "Interpreting the Results."

Sample Preparation

In order to detect the target antibody, some samples must first be diluted in common laboratory buffer (phosphate buffered saline or similar). All three IsoQuick Strips use the same sample preparation, and they may be used together or serially in the same sample.

- Cell culture supernatant can be run as-is without dilution. Recommended sample size is 150-500 microliters.
- The recommended dilution for ascites is 1:10,000 to 1:100,000.
- When testing purified antibody, dilute the sample to between 0.1 and 4 microgram/mL.

The volume of sample tested should be placed in a vessel that will allow enough liquid to run up the strip, but should be no deeper than 1.5 cm (15 mm). Autoanalyzer cups of 0.5 mL are recommended and available for purchase through EnviroLogix.

How to Run the IsoQuick Strip Test

1. Allow refrigerated canisters to come to room temperature before opening. Remove the IsoQuick Strips to be used. Avoid bending the strips. Reseal the canister immediately.

2. Add sample to the reaction vial, then insert the strip. The sample will travel up the strip.
3. Allow the strip to develop for 5 minutes before making final assay interpretations. Positive sample results may become obvious much more quickly.
4. To retain the strip, cut off and discard the bottom section of the strip covered by the arrow tape.

NOTE: Use caution to prevent sample-to-sample cross-contamination.

Interpreting the Results

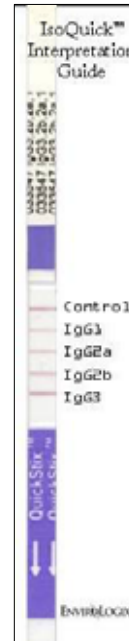
Development of the Control Line within 5 minutes indicates that the strip has functioned properly. Any strip that does not develop a Control Line should be discarded, and the sample re-tested using another strip.

Negative Result – If no IgG subclasses are present, the strip will only show the pink Control Line.

Positive Result – If the sample contains IgG1, IgG2a, IgG2b, or IgG3 antibodies, the strip will develop a pink test line. Only one Test Line should develop. The isotype subclasses are listed in order on their label (bottom to top) to help identify which is present; or compare the strip to the interpretation guide, provided both on the canister and in this insert.

If more than one Test Line appears, this may indicate the presence of multiple antibody subclasses. The additional subclasses may come from ascites host immunoglobulins, myeloma cell lines, or fusion partners (see www.envirologix.com/IsoQuick for a listing of common fusion partners and myeloma cell lines).

The dominant subclass should develop the strongest Test Line. If results are difficult to determine, dilute the sample and run another IsoQuick strip. Diluting the sample will decrease detection of interfering subclasses and confirm the predominant subclass.



Any clearly discernable pink Test Line is considered positive



Items Not Provided:

- Reaction vials (0.5 mL autoanalyzer cups or similar)
 - Available through EnviroLogix (ACC-043, bag of 50)

Highlights:

- Results in 5 minutes or less
- Conveniently packaged in 5 or 25 strips/kit
- Ready to use
- Test for IgA and IgM isotype classes
- Can be used alone or with other IsoQuick Strips—in the same prepared sample—for customized results

Items Not Provided:

- Reaction vials (0.5 mL autoanalyzer cups or similar)
 - Available through EnviroLogix (ACC-043, bag of 50)

IgA/M Strip

Intended Use

These IsoQuick Strips are designed to detect and identify mouse IgA and IgM isotype classes in cell culture supernatant, ascites, or purified antibody. Optimum detection range is 0.1 to 4 micrograms per mL, with detection of as little as 10 nanograms per mL. This kit is designed for research purposes only. For use in matrices other than those listed, please contact Technical Service.

How the Test Works

Each IsoQuick Strip has an absorbent pad at each end. The protective tape with the arrow indicates the end of the strip to insert into the reaction vial. The sample will travel up the membrane strip and be absorbed into the larger pad at the top of the strip. The portion of the strip between the protective tape and the absorbent pad at the top of the strip is used to view the reactions as described under “Interpreting the Results.”

Sample Preparation

In order to detect the target antibody, some samples must first be diluted in common laboratory buffer (phosphate buffered saline or similar). All three IsoQuick Strips use the same sample preparation, and they may be used together or serially in the same sample.

- Cell culture supernatant can be run as-is without dilution. Recommended sample size is 150-500 microliters.
- The recommended dilution for ascites is 1:10,000 to 1:100,000.
- When testing purified antibody, dilute the sample to between 0.1 and 4 microgram/mL.

The volume of sample tested should be placed in a vessel that will allow enough liquid to run up the strip, but should be no deeper than 1.5 cm (15 mm). Autoanalyzer cups of 0.5 mL are recommended and available for purchase through EnviroLogix.

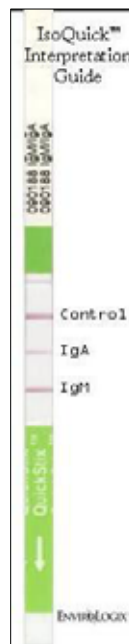
How to Run the IsoQuick Strip Test

1. Allow refrigerated canisters to come to room temperature before opening. Remove the IsoQuick Strips to be used. Avoid bending the strips. Reseal the canister immediately.

2. Add sample to the reaction vial, then insert the strip. The sample will travel up the strip.
3. Allow the strip to develop for 5 minutes before making final assay interpretations. Positive sample results may become obvious much more quickly.
4. To retain the strip, cut off and discard the bottom section of the strip covered by the arrow tape.

NOTE: Use caution to prevent sample-to-sample cross-contamination.

Interpreting the Results



Development of the Control Line within 5 minutes indicates that the strip has functioned properly. Any strip that does not develop a Control Line should be discarded, and the sample re-tested using another strip.

Negative Result – If no IgA or IgM isotype classes are present, the strip will only show the pink Control Line.

Positive Result – If the sample contains IgA or IgM antibodies, the strip will develop a pink test line. Only one Test Line should develop. The isotype classes are listed in order on their label (bottom to top) to help identify which is present; or compare the strip to the interpretation guide, provided both on the canister and in this insert.

If more than one Test Line appears, this may indicate the presence of multiple antibody classes. The additional classes may come from ascites host immunoglobulins, myeloma cell lines, or fusion partners (see www.envirologix.com/IsoQuick for a listing of common fusion partners and myeloma cell lines).

The dominant isotype class should develop the stronger Test Line. If results are difficult to determine, dilute the sample and run another IsoQuick strip. Diluting the sample will decrease detection of the interfering class and confirm the predominant class.



Any clearly discernable pink Test Line is considered positive



Highlights:

- Results in 5 minutes or less
- Conveniently packaged in 5 or 25 strips/kit
- Ready to use
- Test for kappa and lambda lightchains
- Can be used alone or with other IsoQuick Strips—in the same prepared sample—for customized results

Items Not Provided:

- Reaction vials (0.5 mL autoanalyzer cups or similar)
 - Available through EnviroLogix (ACC-043, bag of 50)

K/L Strip

Intended Use

These IsoQuick Strips are designed to detect and identify mouse kappa or lambda isotype lightchains in cell culture supernatant, ascites, or purified antibody. Optimum detection range is 0.1 to 4 micrograms per mL, with detection of as little as 10 nanograms per mL. This kit is designed for research purposes only. For use in matrices other than those listed, please contact Technical Service.

How the Test Works

Each IsoQuick Strip has an absorbent pad at each end. The protective tape with the arrow indicates the end of the strip to insert into the reaction vial. The sample will travel up the membrane strip and be absorbed into the larger pad at the top of the strip. The portion of the strip between the protective tape and the absorbent pad at the top of the strip is used to view the reactions as described under “Interpreting the Results.”

Sample Preparation

In order to detect the target antibody, some samples must first be diluted in common laboratory buffer (phosphate buffered saline or similar). All three IsoQuick Strips use the same sample preparation, and they may be used together or serially in the same sample.

- Cell culture supernatant can be run as-is without dilution. Recommended sample size is 150-500 microliters.
- The recommended dilution for ascites is 1:10,000 to 1:100,000.
- When testing purified antibody, dilute the sample to between 0.1 and 4 microgram/mL.

The volume of sample tested should be placed in a vessel that will allow enough liquid to run up the strip, but should be no deeper than 1.5 cm (15 mm). Autoanalyzer cups of 0.5 mL are recommended and available for purchase through EnviroLogix.

How to Run the IsoQuick Strip Test

1. Allow refrigerated canisters to come to room temperature before opening. Remove the IsoQuick Strips to be used. Avoid bending the strips. Reseal the canister immediately.

2. Add sample to the reaction vial, then insert the strip. The sample will travel up the strip.
3. Allow the strip to develop for 5 minutes before making final assay interpretations. Positive sample results may become obvious much more quickly.
4. To retain the strip, cut off and discard the bottom section of the strip covered by the arrow tape.

NOTE: Use caution to prevent sample-to-sample cross-contamination.

Interpreting the Results

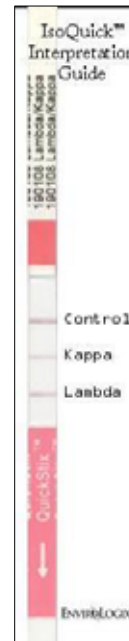
Development of the Control Line within 5 minutes indicates that the strip has functioned properly. Any strip that does not develop a Control Line should be discarded, and the sample re-tested using another strip.

Negative Result – If no isotype lightchains are present, the strip will only show the pink Control Line.

Positive Result – If the sample contains kappa or lambda lightchain antibodies, the strip will develop a pink test line. Only one Test Line should develop. The lightchains are listed in order on their label (bottom to top) to help identify which is present; or compare the strip to the interpretation guide, provided both on the canister and in this insert.

If more than one Test Line appears, this may indicate the presence of multiple antibody classes or subclasses. The additional antibodies may come from ascites host immunoglobulins, myeloma cell lines, or fusion partners (see www.envirologix.com/IsoQuick for a listing of common fusion partners and myeloma cell lines).

The dominant isotype lightchain should develop the stronger Test Line. If results are difficult to determine, dilute the sample and run another IsoQuick strip. Diluting the sample will decrease detection of the interfering lightchain and confirm the predominant lightchain.



Any clearly discernable pink Test Line is considered positive

