

## ***IsoQuick™ Strips for Mouse Monoclonal Antibody Isotyping Kappa and Lambda Light Chains***

### ***Intended Use***

IsoQuick™ Kappa / Lambda strips are designed to detect and identify mouse kappa and lambda light chains in cell culture medium, ascites fluid, or purified antibody. Optimum detection range is 0.1 to 4 ug/ml with detection of as little as 10ng/ml. *This kit is for Research Use Only.*

### ***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 is used to view the reactions as described under "Interpreting the Results" (below).

### ***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 types of IsoQuick™ strips use the same sample preparation, and they may be used together or serially in the same sample. Recommended sample size is 150-500ul.

- ✓ Cell culture medium can be tested without dilution.
- ✓ Ascites fluid should be diluted 1:10,000-1:100,000.
- ✓ Purified antibody should be diluted to 0.1-4ug/ml.

The volume of sample should be placed in a vessel that will allow

enough liquid to run up the strip but should not be deeper than 1.5 cm (15mm).

### ***How To Run the IsoQuick™ Strip Test***

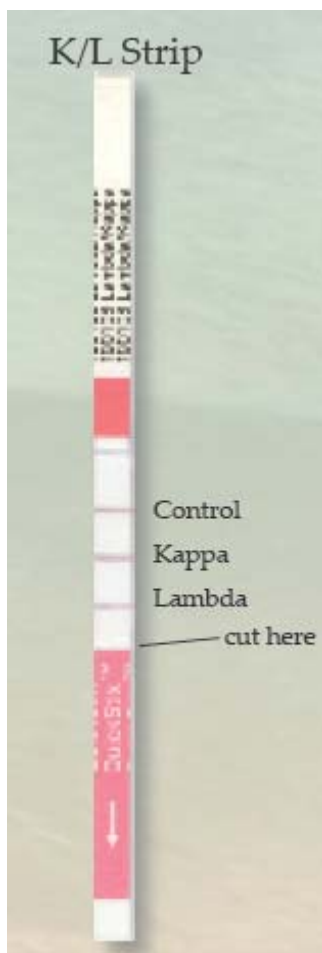
1. Allow refrigerated canisters to come to room temperature before opening. Remove the IsoQuick™ strips to be used. Avoid bending the strips. Reseal the canister immediately.
2. Add sample to the reaction tube or vial, then insert the strip. The sample will travel up the strip.



3. Allow the strip to develop for 5 minutes before making final assay interpretations. Positive sample results may become obvious in less than 5 minutes.
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 with another strip.

**Negative Result:** If no kappa or lambda light chains are present, the strip will only show the pink Control Line.

**Positive Result:** If the sample contains kappa or lambda light chains, the strip will develop a pink test line. Only one test line should develop for monoclonal antibody. The light chains are listed in order on their label to help identify which is present, or compare the strip to the

interpretation guide provided on the canister and in this insert.

If more than one pink test line appears, this may indicate the presence of more than one antibody. Additional antibodies may come from endogenous ascites host immunoglobulins, myeloma cell lines, or may be due to the presence of more than one monoclonal antibody in the sample.

The dominant light chain should develop the strongest test line. If results are difficult to determine, dilute the sample further and run another IsoQuick™ strip. Diluting the sample will decrease detection of interfering light chains and confirm the predominant light chain.

### 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 test for presence or absence only and is not designed 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 kit components from hot or cold extremes of temperature.