

## Ligatrap® Mouse IgM Purification Kit, 10 x 0.1 mL Spin Columns

### Part # *LT-145KIT*

#### Kit Contents

Part #	Item	Quantity
LT-145-SC	<b>Microspin Columns</b> - centrifuge columns supplied with caps and plug. Each column contains 0.1 mL Ligatrap® Mouse IgM Purification Resin in PBS buffer with 0.05% sodium azide.	<b>10</b>
BU-131-FP	<b>Ligatrap Sample Diluent 2.0</b>	<b>15 mL</b>
BU-132-FP	<b>Ligatrap Equilibration/Wash Buffer 2.0</b>	<b>250 mL</b>
BU-123-FP	<b>Ligatrap Elution Buffer</b>	<b>125 mL</b>
BU-124-FP	<b>Ligatrap Regeneration Buffer</b>	<b>50 mL</b>
BU-125-FP	<b>Ligatrap Neutralization Buffer</b>	<b>15 mL</b>
BU-126-FP	<b>Ligatrap Storage Buffer</b>	<b>50 mL</b>
PL-057	<b>2 mL Collection Tubes</b>	<b>80</b>

#### Introduction

**Ligatrap® Mouse IgM Purification Resin** is engineered to purify high quality mouse IgM antibodies from recombinant and monoclonal sources. **Binding capacity for mouse IgM is >10mg/ml resin.** The Ligatrap® Mouse IgM Purification Kit provides all the necessary reagents for fast, convenient micro-scale purification of mouse IgM in just 10 easy steps. Each kit contains 10 microspin columns prefilled with 0.1ml of Ligatrap® mouse IgM Purification Resin, buffers, and collection tubes. Each spin column can be used, regenerated, and used up to 10 times with minimal loss in binding capacity.

#### Additional Materials Required

- Microcentrifuge set between 1000-3000 x g
- Vortex/Mixer
- Centrifuge tubes or container for sample preparations

## Antibody Purification Procedure

### Sample Prep

1. In a separate tube (not supplied in kit) add 400µl of sample matrix (i.e. supernate or cell culture media) containing mouse IgM
2. Add 100µl of **LigaTrap Sample Diluent 2.0** to the sample. Mix briefly by vortexing.

### Purification

3. Equilibrate resin by adding 400µl of **LigaTrap Equilibration/Wash Buffer 2.0**. Snap the bottom plug on the Microspin column. Save the plug, as it will be needed to stopper the column. Insert the Microspin column into a supplied 2.0 mL Collection Tube. Centrifuge between 1000-3000 x g for 1 minute. Empty the buffer from Collection Tube. Repeat with an additional 400µl equilibration. Insert the bottom plug into the Microspin column.
4. Transfer 400µl of prepared sample (Step # 2) to the equilibrated column. Place screw cap on snugly. Vortex briefly for 15 seconds. Continue to mix/shake the sample and resin continuously for **10 min**.
5. Remove plug and insert the Microspin column into a Collection Tube. Centrifuge between 2000 x g for 1 minute. Discard unbound material or retain for further evaluation.
6. Add 400µl of the **LigaTrap Equilibration/Wash Buffer 2.0**. Remove plug and insert Microspin column into a clean Collection Tube. Centrifuge between 1000-3000 x g for 1 minute. Discard wash. Repeat with two additional washes for a total of three washes. (3x400µl)

***\*IR-Tip:** Collection Tubes used to collect washes can be reused.*

7. Insert the washed Microspin column into a **new, labeled** Collection Tube. Add 400µl of **LigaTrap Elution Buffer** to the column. Vortex briefly for 15 seconds. Centrifuge between 1000-3000 x g for 1 minute. Place the Microspin column into a new, labeled Collection Tube. Repeat with second 400µl elution. **\*Note: The eluates contain the purified antibodies. Do not discard!**
8. Pool eluates from Step 7 and add 100µl of **LigaTrap Neutralization Buffer** to the antibody. Attach the cap. Vortex briefly. The antibody will be near neutral pH. The antibody is ready for downstream applications. **Note: There are no preservatives in the antibody. Use the antibody within one week or aliquot and store at -20° C or colder. Avoid multiple freeze thaws.**

***\*IR-Tip:** Each Ligatrap™ IgM Purification Resin/column can be used up to 10 times without significant loss of binding capacity*

9. If the column will not be reused, it can be discarded. If column is to be reused, regenerate the column by adding 400µl of **LigaTrap Regeneration Buffer**. Vortex briefly for 15 seconds. Insert the Microspin column into a 2.0 mL Collection Tube and centrifuge between 1000-3000 x g for 1 minute.
10. To store resin add 400µl of **LigaTrap Storage Buffer**. Insert the Microspin column into a 2.0 mL Collection Tube. Centrifuge between 1000-3000 x g for 1 minute. Discard wash. Repeat with an additional two washes for a total of three washes. (3x400µl) Insert the bottom plug into the Microspin column, add 400µl of fresh **LigaTrap Storage Buffer** and store at 2-8° C.