

# BioMag<sup>®</sup> 12mm x 75mm Test Tube Separator

## Description

A durable two piece plastic test tube rack designed to accommodate sixty 12mm x 75mm test tubes for radioimmunoassay and enzyme immunoassay. The unit consists of a test tube holder that fits over a magnetic separation rack containing permanent magnets. The two piece design allows immunoassays to be set up, incubated and magnetically separated without removing the assay tubes from the test tube holder.

## Procedure

### For an Iodinated Assay

Separate the test tube holder from the magnetic separation rack. Place labeled assay tubes in the test tube holder. Add standards, samples, tracer and antibody and incubate as directed by the assay protocol. Add magnetic phase and observe the incubation time. Place the test tube holder, with the tubes in place, on top of the magnetic separation rack and allow separation to proceed for 10 minutes. With the rack in place, invert the unit to decant the assay tubes. Count the pellets in a calibrated gamma counter.

### For a Tritiated Assay

Separate the test tube holder from the magnetic separation rack. Position labeled tubes in the test tube holder so that there is an empty tube holder position in front of and beside each tube. Add standards, samples, tracer and antibody and incubate as directed by the assay protocol. Add the BioMag Dextran-coated Charcoal (Cat. #84510). Place the test tube holder, with the tubes in place, on top of the magnetic separation rack and allow separation to proceed for 10 minutes. Place labeled scintillation vials in place, hold a sturdy piece of cardboard or other inflexible material over the scintillation vials as the unit is inverted. While in the inverted position, gently tap the unit over the scintillation vials to decant the final drops from the test tubes. Carefully move the unit away from the scintillation vials. Add a volume of scintillation fluid designed for aqueous solutions to each vial and count in a calibrated liquid scintillation counter. Alternatively, an aliquot of the supernatant may be removed and added to the scintillation fluid after the magnetic separation has been completed. Exercise caution when removing the aliquot by not disturbing the magnetic pellet at the bottom of the tube.

### For an Enzyme Immunoassay

For enzyme immunoassays using magnetic particles, the tubes may be read directly in a spectrophotometer after the completion of the substrate color development. Or, an aliquot of the supernatant may be removed and read in a spectrophotometer. Exercise caution when removing the aliquot by not disturbing the magnetic pellet at the bottom of the tube.

## Storage and Stability

The BioMag 12mm x 75mm Test Tube Separator should be wiped clean with mild detergent. Do not immerse. Harsh chemicals and organic solvents may damage the surface of the unit.

## Safety

Strong magnetic field. This separation unit should be used and stored a safe distance from magnetic media, such as computers, videotapes, credit cards, etc.

**This product is for research use only and is not intended for use in humans or for *in vitro* diagnostic use.**



**Ordering Information**

<b>Catalog Number</b>	<b>Description</b>	<b>Size</b>
84104S-1	BioMag® 12mm x 75mm Test Tube Separator	1 each

**Related Product**

<b>Catalog Number</b>	<b>Description</b>	<b>Size</b>
84510-100	BioMag® Dextran-coated Charcoal	100ml

**To Order**

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Order online anytime at [www.polysciences.com](http://www.polysciences.com).