

## BioMag 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 radiimmunoassay 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.

### Use

#### 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.

#### 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. Place the test tube holder, with the tubes in place, on top of the magnetic separation unit and allow the separation to proceed for 10 minutes. Place labeled 20ml scintillation vials over each test tube so that each tube will decant into the scintillation vials when the magnetic separation unit is turned over. To invert the unit with the 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.

**Enzyme Immunoassay:** For enzyme immunoassays using magnetic particles, the tubes may be read directly in a

spectrophotometer after the completion of substrate color development. Or an aliquot of 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.

### Care

The magnetic separation unit should be cleaned with mild detergent. Harsh chemicals and organic solvents may cause damage.

### Warning

Strong Magnetic Field. Use and store at a safe distance from all magnetic media including computer discs, videotapes and credit cards etc.

### Ordering Information:

Cat. #	Description	Size
84104S	BioMag 12mm x 75mm Tube Separator	1 ea.

#### To Order:

In The U.S. Call: 1-800-523-2575 • 215-343-6484

In The U.S. FAX: 1-800-343-3291 • 215-343-0214

In Germany Call: (49) 6221-765767

In Germany FAX: (49) 6221-764620

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

