

TECHNICAL DATA SHEET 256

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De-Hibit-200

For Removal of Inhibitors From Monomers

De-Hibit-200 macroreticular ion exchange resin is supplied as water-saturated chloride beads. For use with non-aqueous monomers, it is first washed with dilute sodium chloride to remove any free amine form. This is done by passing 4 column volumes of dilute NaCl (approximately 4% by weight) through the wet resin. The column is then rinsed with distilled or deionized water. The water must then be removed by passing methanol equal to 2.5 times the resin volume and allowing it to flow through the resin column in one hour. If other solvents are to be used, they are then used following the methanol. The same amount and flow times are used. For removal of MEHQ, hydroquinone, or t-butyl catechol, the monomer is passed downflow through the column at a rate of about four bed volumes per hour. With a monomer containing 100 ppm of inhibitor approximately 170 bed volumes may be passed through before there is leakage of inhibitor.

The De-Hibit-200 resin may be regenerated by passing 2.5 bed volumes of methanol upward through the resin in 1 hour to remove the inhibitor. Regeneration by backflow through the column is more efficient than downflow. For use with aqueous monomers, the resin is also back washed with two bed volumes of water. For water soluble monomers such as glycol methacrylate, there is no need to condition the ion-exchange resin beyond the methanol treatment.

The efficiency of inhibitor removed depends on the concentration of inhibitor and the rate of monomer feed. Efficiency is greatest for higher concentrations of inhibitor. Levels of inhibitor below 1ppm can be easily obtained. Hydroquinone (HQ) is more easily removed than methyl ether of hydroquinone (MEHQ). The resin may be regenerated repeatedly over a period of years without loss of efficiency.

Ordering Information

Cat. #	Description	Size
24013	De-Hibit-200	500g

To Order In The US:

In The U.S. Call: 1-800-523-2575 • (215) 343-6484
In The U.S. Fax: 1-800-343-3291 • (215) 343-0214

To Order In Germany:

In Germany Call: (49) 6221-765767
In Germany Fax: (49) 6221-764620
Order online anytime at www.polysciences.com

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