

IDA Chelating Superflow 4**Before you start**

1. Measure the required amount of suction-dried IDA Chelating Superflow 4 resin.
2. Wash the resin in a Buchner funnel or empty column with 5 bed volumes of DI water.
3. Remove the excess water by gentle suction and transfer the resin into a beaker or flask.

Protocol:**Charging IDA Chelating Superflow 4 with Divalent (M^{2+}) metal ions**

1. Prepare a 75mg/mL solution of the desired Divalent metal ion (M^{2+} , $M = Zn, Ni, Co, Cu$, etc) in DI water.
2. Mix until all the metal ion solution is dissolved (~5 to 10 minutes).
3. Pour solution into vessel containing IDA Chelating Superflow 4 resin.
4. Allow mixture to shake/rock for 1 hour at room temperature.
5. After 1 hour, the coordination of the metal ion to the IDA Chelating Superflow 4 resin is complete. Pour the charged resin into a Buchner funnel and suction dry.
6. Wash resin with 10-20 bed volumes of DI water to remove addition/unchelated metal ions.
7. Suction dry resin to remove residual water.
8. Place metal coordinated IDA Chelating Superflow 4 in 0.5 bed volumes of 20% ethanol.
9. Store in 2-8 °C.

NOTE: Although the use of sulfate counter ions (SO_4^{2-}) is the most used form, other counter ions such as: Cl^- and NO_3^- are also acceptable.

Storage:

Uncoordinated IDA Chelating Superflow 4 (cat#37410) is supplied in 20% ethanol. Store at 2-8 °C. Do not freeze. Do not expose the resin to acidic or basic conditions (unless it is prescribed in the instructions).

For technical service email info@sterogene.com or call (760) 929-0455