RECOMMENDED COLUMN CLEANING AND REGENERATING PROCEDURES

Use the cleaning routine that matches the properties of the column an what you believe is contaminating it. Flush columns with 20 column volumes (80 mL total for 4.6 x 250 mm column) of HPLC-grade solvents. Run columns in reverse flow direction, with the outlet disconnected from the detector. Cleaning efficiency is increased by increasing mobile phase temperature to 35-55 °C. If the column performance is poor after regenerating and cleaning, call us.

Silica-based **particles**

Non-polar-bonded **phases** (Carotenoid, C18, Octyl, YMCbasic™, J'sphere™, Phenyl, Butyl, TMS):

Polar **Samples**	Non-polar **Samples**	Proteinaceous **Samples**
1. Water	1. Isopropanol	Option 1: Inject repeated aliquots of DMSO
2. Methanol	2. THF	Option 2: Gradient of 10 to 90% B where:
3. THF	3. Dichlormethane	A = 0.1% TFA in water
4. Methanol	4. Hexane	B = 0.1% TFA in CH2CN
5. Water	5. Isopropanol	Option 3: Flush column with 7M guanidine
6. Mobile phase	6. Mobile phase	HCl, or 7M urea

Polar-bonded **phases** (Cyano, Diol, Amino, PVA-sil™, Silica):

Polar **Samples**	Non-polar **Samples**
1. Water	1. Chloroform
2. Methanol	2. Methanol
3. THF	3. Dichlormethane
4. Methanol	4. Heptane or Isocyanate
5. Water	5. Isopropanol
6. Mobile phase	6. Mobile phase

Polymer-based **particles**: Polymer C18™

1. Flush column with mobile phase but omit buffers or salts (i.e. just organic and water, acetonitrile is preferable)
2. Run a gradient to 100 % organic
3. Flush with twenty column volumes of THF
4. Flush with twenty column volumes of acetonitrile
5. Run a gradient back to starting mobile phase conditions, ommitting buffers an salts
6. Re-equilibrate in mobile phase

YMC Europe GmbH, Schöttmannshof 19, D-46539 Dinslaken / Tel.: +49(0)2064/427-0 / Fax: +49(0)2064/427-222 / E-mail: info@ymc.de / Internet:http://www.ymc.de