



# PolyLC<sup>INC.</sup>

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## Instructions for: Solid Phase Extraction (SPE) Cartridges

**Conditioning:** Attach a syringe to the cartridge and flush with several ml of a solution that promotes retention in the mode employed with the cartridge (see back).

**Sample treatment:** Load the sample solution into the syringe and force it through the cartridge. Flush out non-adsorbed solutes with several ml of the solution used to flush the new cartridge. To recover adsorbed solutes, flush the cartridge with 1-2 ml of a strong eluting solution (see back).

**Cartridge reuse:** In some cases, cartridges can be reused; for example, by flushing out salts with water and then reconditioning with a solution which promotes retention in the mode used. However, the feasibility of reuse must be determined on a case-by-case basis.

Material & Mode	Loading & Flushing Solution	Eluting Solution
<b>PolyHYDROXYETHYL A<sup>TM</sup> Hydrophilic Interaction (HILIC)</b>	90% ACN + 10 water w/ 5 mM TEAP or ammonium formate, pH 3.0	20 mM TEAP or ammonium formate, pH 3.0 NO ACN. With unusually hydrophilic solutes, more salts may be necessary.
<b>PolyETHYL A<sup>TM</sup>, METHYL A<sup>TM</sup>, &amp; PROPYL A<sup>TM</sup> Hydrophobic Interaction (HIC)</b>	2M ammonium sulfate + 20mM K-PO <sub>4</sub> , pH 7.0	Step to 1M NH <sub>4</sub> -sulfate + 20 mM K-PO <sub>4</sub> to elute the weakly hydrophobic solutes; additional step to 20 mM K-PO <sub>4</sub> to elute to strongly hydrophobic solutes
<b>PolySULFOETHYL A<sup>TM</sup> Cation-Exchange (SCX)</b>	5 mM K-PO <sub>4</sub> , w/ 20% ACN, pH 2.8	5 mM K-PO <sub>4</sub> + 0.5 M KCl, pH 2.8 w/ 20% ACN. To fractionate by basicity, use steps with intermediate levels of KCl.
<b>PolyCAT A<sup>TM</sup> Cation-Exchange (WCX)</b>	5 mM K-PO <sub>4</sub> , w/ 20% ACN, pH 5-6	5 mM K-PO <sub>4</sub> + 0.5 M KCl, pH 5-6 w/ 20% ACN. To fractionate by basicity, use steps with intermediate levels of KCl.
<b>PolyWAX LP<sup>TM</sup> Anion Exchange (WAX)</b>	5 mM K-PO <sub>4</sub> , w/ 20% ACN, pH 7	5 mM K-PO <sub>4</sub> + 0.5 M KCl, pH 7 w/ 20% ACN. To fractionate by basicity, use steps with intermediate levels of KCl.
<b>SDS Removal</b>	0.1% TFA, or 5 mM K-PO <sub>4</sub> , pH 2.8	0.5 M KCl to remove bound SDS prior to reequilibration for reuse.