MICROLUTE® CP - SCX

PROTOCOL

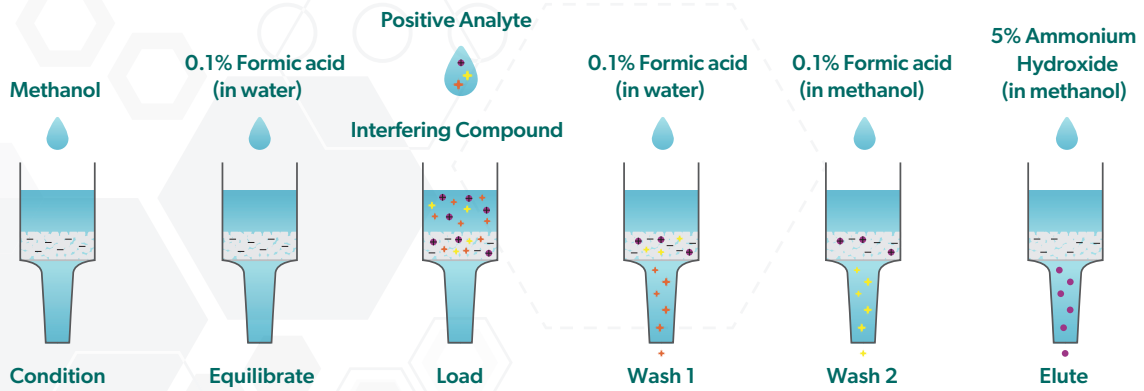
Example Method for the Extraction of Weak Bases

The Microlute® CP strong cation exchange (SCX) uses a sulfonic acid functional group immobilised on a polymeric base with a pK_a of <1. It is ideal for the capture of weak basic analytes through cation exchange. As with all Microlute® CP products, the polymeric base offers a secondary retention mechanism for neutral compounds.

	Solvent	10 mg Volume	2 mg Volume
1 **Condition**	MeOH	500 µL	200 µL
2 **Equilibrate**	0.1% formic acid in H_2O	500 µL	200 µL
3 **Load**	Sample diluted with 0.1% formic acid in H_2O	500 µL*	100 µL*
4 **Wash 1**	0.1% formic acid in H_2O	500 µL	200 µL
5 **Wash 2**	0.1% formic acid in MeOH	500 µL	200 µL
6 **Elute**	5% ammonium hydroxide in MeOH	500 µL	2x 50 µL
7 **Analyse**	Dilute eluent, directly inject or evaporate eluent and reconstitute in a more suitable solution for analysis.		

This method is an ideal starting point for several applications and for samples containing a wide range of components. Method development may be required to obtain optimal recovery and reproducibility.

*The wells can hold up to 1 mL for the 2 mg product and 1.5 mL for the 10 mg product. However, the actual volume of the sample that can be loaded is determined by its concentration and how much it has been diluted.



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