

SUPPORTED LIQUID-LIQUID EXTRACTION METHOD

Product selection guide:

For small sample size SLE product (SYSLE3ML-1 & OC21SLE-1), the maximum loading solution volume (including buffers) is 0.2 ml. For large sample size SLE product (SYSLE3ML-2 & OC21SLE-2), the maximum loading limit is 0.4 ml.

Recommended procedures (large sample size SLE product)

Premix: 100 μ L of spiked human plasma with 250 μ L of buffer, and 40 μ L of IS. Vortex to mix well.

For most hydrophobic chemical or neutral hydrophilic chemical extraction, samples can be diluted with water, and loaded onto SLE plate, and eluted with organic solvent. For basic hydrophilic chemicals, samples should be diluted with buffer at approximately pH 10 first. For acidic hydrophilic chemicals, samples should be adjusted to pH 3 with buffer.

Samples are recommended to be diluted with buffer at ration of at least 1:1 , preferably 1:2 or 1:3 ratio.

Load: the premixed solution by gravity, if there is no flow down into adsorbent in 5 minutes, apply short pulse (1-2 s) of positive pressure at minimum pressure setting. Then, let the cartridge soak the sample and stand for 5 minutes after all solution is completely adsorbed.

Elute: 1.5 mL of organic solvent (such as MTBE, ethyl acetate, hexane) in two 0.75 mL increments. Let solvent stand for 5 minutes. If no solvent flows down by gravity, then apply short pulse of positive pressure. Collect all eluate.