

## Product selection guide:

For small sample size AQUAMATRIX SLLE product (SYSLLE3ML-1 & OC21SLLE-1), the maximum loading solution volume (including buffers) is 0.2 ml. For large sample size SLLE product (SYSLLE3ML-2 & OC21SLLE-2), the maximum loading limit is 0.4 ml.

## Recommended procedures (large sample size AQUAMATRIX SLLE product)

**Premix:** 100  $\mu$ L of spiked human plasma with 250  $\mu$ L of buffer, and 40  $\mu$ 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 AQUAMATRIX SLLE 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.



## Orochem sample preparation product catalog numbers

Catalog #	Product Name	Description	Qty/Pk
OC21SLLE-1	AQUAMATRIX SLLE plate, small sample size	Diatomaceous Earth, small sample size, 2mL/well plate	1
OC21SLLE-2	AQUAMATRIX SLLE plate, large sample size	Diatomaceous Earth large sample size, 2mL/well plate	1
SYDA6ML	AQUAMATRIX SLLE cartridges, large sample size, 6 mL cartridges	Diatomaceous Earth, 6mL cartridges, large sample size	100
SYSLLE3ML-1	AQUAMATRIX SLLE cartridges, small sample size, 3 mL cartridges	Diatomaceous Earth, 3 mL cartridges, large sample size	100
SYSLLE3ML-2	AQUAMATRIX SLLE cartridges, small sample size, 3 mL cartridges	Diatomaceous Earth, 6mL cartridges, large sample size	100
SYPA6030-01	PANTHERA DELUXE SPE cartridges	PANTHERA DELUXE DVB 30 mg/1mL SPE cartridges	100
OC21PA6030	PANTHERA DELUXE SPE plate	PANTHERA DELUXE DVB SPE plate, 30 mg/2cc well plates	1
OC21MKS50	MATRIKLEEN Extrac on plate	MATRIKLEEN extrac on 96 well plate, 2 mL/well	1
OC21PPT20-1	RUBYPRO Protein Crash plate	RUBYPRO Protein crash plate, 2mL/well, 0.2 $\mu$ m cutoff	1