Orochem Aquamatrix products are packed with chemically inert material, flux calcined diatomaceous earth. It allows high throughput alternative to traditional liquid-liquid extraction techniques.

**Features**
- Cartridges and 96-well plate formats, and 1 mL or 2 mL format available
- Stable in the pH range 1-13
- Plates compatible with robotic liquid handling system

**Advantages**
- Eliminates steps like mixing, centrifugation and organic phase separation
- Provides support, greater surface area and accelerated solvent extraction
- No pre-treatment of the sorbent is necessary
Supported Liquid - Liquid Extraction Plate

**Compound:**

![Carbamazepine](image)

**HPLC Method:**

- **Column:** Orochem Reliasil C8 HPLC column 4.6x50mm, 5µm
- **Part Number:** R3Bl-102
- **Mobile Phase:** Water/ Acetonitrile 65:35
- **Flow Rate:** 0.5mL/min
- **Injection Volume:** 20µL
- **Retention Time:** 3.87 min

**MS/MS Conditions:**

- **Mass Spectrometer:** API3000
- **Ion Source:** Turbo Ionspray
- **Polarity:** Positive
- **Scan Mode:** MRM:
  - primary, Q1: 237.1, Q3: 194;
  - secondary, Q1: 237.1, Q3: 220;
- **IS:** 4000
- **Temp:** 550
- **DP:** 20
- **CAD:** 12
- **CE:** 25
- **CXP:** 15

**Results:** Recovery (CV%): 83% (2.8%)

**Liquid - Liquid Extraction Method:**

(Supported liquid - liquid extraction plate)

- **Load:** 100 µL spiked human plasma (250ng/mL) with 100 µL water and 20 µL ammonium hydroxide. Let stand for 5 minutes, then apply a short pulse of positive pressure.

- **Elute:** 1.5 mL of ethyl acetate twice. Let solvent stand for 5 minutes, then apply a gentle stream of positive pressure till all solvent passes through.

- **Evaporate and Reconstitute:** 200 µL of 35% acetonitrile