



# TACROLIMUS, CYCLOSPORIN AND RAPAMYCIN IN WHOLE BLOOD USING: 30 mg STYRE SCREEN<sup>®</sup> EXTRACTION COLUMN

Part #: SSDVB031

## 1. PREPARE SAMPLE

Add 50 mcL whole blood and 50 mcL of 0.1 M ZnSO<sub>4</sub> to a centrifuge tube. Vortex.

Add 500 mcL methanol and internal standards. Vortex. Centrifuge. Transfer supernate to a clean tube, add 500 mcL D.I. water. Vortex.

## 2. CONDITION CLEAN UP<sup>®</sup> EXTRACTION COLUMN

1 x 2 mL CH<sub>3</sub>OH.

1 x 2 mL D.I. H<sub>2</sub>O.

**NOTE:** Aspirate at < 3 inches Hg to prevent sorbent drying.

## 3. APPLY SAMPLE

Decant the sample onto the column. Load at 1 to 2 mL/minute.

## 4. WASH COLUMN

1 x 2 mL D.I. H<sub>2</sub>O.

Dry column (20 minutes at > 10 inches Hg).

## 5. ELUTE ANALYTES

Add 750 mcL of ethyl acetate.

Collect eluate at 1 to 2 mL / minute.

## 7. ANALYSIS

The sample may be injected as is for HPLC analysis.

### NOTES:

Suggested internal standards:

Cyclosporin      Cyclosporin-D

Tacrolimus      Ascomycin

Rapamycin      Desmethoxyrapamycin