



# Sample Preparation Products

## Application Note: H-CX703

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### *Extraction Catecholamines from Biological Fluids*

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#### **Introduction**

This Application Note describes a sample preparation method for Drugs of Abuse from Urine. This method uses TELOS™ H-CX 130mg/3ml SPE Columns.

#### **Sample Considerations**

##### **Analytes**

Various Catecholamines.

##### **Matrix**

Plasma and Urine.

#### **Sample Preparation**

##### **Columns**

TELOS H-CX 130mg/3ml SPE Columns, part number 500-130M-003T.

##### **Sample Pre-Treatment**

Dilute sample (1ml) with phosphoric acid (2ml).

##### **Column Conditioning**

Condition the column with 3% v/v ammonia in acetonitrile (1ml) at a suitable flow rate (5-10ml/min).

##### **Column Equilibration**

Equilibrate the column with water (3ml) at a flow rate of 4ml/min, followed by phosphate buffer pH 6.0 (3ml) at the same flow rate.

##### **Sample Application**

Apply the sample at a suitable flow rate (1-5ml/min).

##### **Interference Elution**

RRinse the column with phosphate buffer pH 6.0 (1ml), followed by methanol (1ml) at a flow rate of 1-2ml/min. Dry the column prior to elution for 30 seconds.

##### **Analyte Elution**

Elute analytes with 2% v/v ammonium hydroxide in methanol (3 x 1ml) at a flow rate of 1-2ml/min, including a 1 minute soak step after each aliquot.

##### **Evaporation and Reconstitution**

Evaporate to dryness and reconstitute in mobile phase.



## **Extraction Catecholamines from Biological Fluids**

### **Reagents**

1. Methanol
2. Water
3. Phosphoric acid
4. Phosphate buffer pH 6.0
5. Ammonium hydroxide

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