



**CARBOXY-THC IN URINE FOR GC/MS CONFIRMATIONS**  
**USING: 30 mg STYRE SCREEN® DBX EXTRACTION COLUMN**  
Part #: SSDBX033 without Tips or SCDBX033 with CLEAN-THRU® Tips

**1. SAMPLE PREPERATION (BASE HYDROLYSIS)**

To 2 mL of urine add internal standard and 100 µL 10N NaOH.  
Mix/vortex. Hydrolyze for 20 mins at 60°C. Cool before proceeding.  
Adjust sample pH to 3.5 ± 0.5 with 1.0 mL glacial acetic acid.

**2. APPLY SAMPLE TO DBX COLUMN**

Load at a rate of 1 to 2 mL/min.

**3. WASH COLUMN**

1 x 1 mL DI H<sub>2</sub>O.  
1 x 1 mL 0.1M HCl/acetonitrile (70/30).  
Dry column (3 mins at > 10 inches Hg).  
1 x 200 µL hexane.

**4. ELUTE CARBOXY-THC**

2 x 0.5 mL hexane/ethyl acetate (50:50); Collect eluate at 1 to 2 mL/min.

Evaporate eluate to dryness at < 40°C.

**5. DERIVATIZATION**

Add 50 µL ethyl acetate  
Vortex mix  
Add 50 µL BSTFA (1% TMCS,) then cap, mix/vortex.  
Heat for 20 minutes at 70°C, allow to cool.  
Note: Do not evaporate BSTFA solution.

**6. ANALYZE**

Inject 1 to 2 µL onto gas chromatograph.  
For MSD monitor the following ions:

<u>Analyte (TMS)</u>	<u>Target (Quantitation) Ion</u>	<u>Qualifier Ions</u>	<u>Cerilliant #</u>
Carboxy-THC-TMS	371	473, 488	T-018
*Carboxy-THC-D3-TMS	374	476, 491	T-004

\*Suggested internal standards