



COCAINE AND METABOLITES IN BLOOD, PLASMA/ SERUM, URINE AND TISSUE FOR GC/MS CONFIRMATIONS

Part #

XRDAH206 - XtrackT[®] DAU with CLEAN-THRU[®] Tips 200 mg, 6 mL Tube

XCDAH206 - XtrackT[®] DAU without Tips

CLTTP050 - CLEAN-THRU[®] Tips

SPHPH06001-10 - Select pH Buffer Pouches 100mM Phosphate pH 6.0

SBSTFA-1-1 - SELECTRA-SIL[®] BSTFA w/ 1% TMCS

1. PREPARE SAMPLE:

To 1 mL of 100 mM phosphate buffer (pH 6.0) add internal standards

Add 2 mL of blood, plasma/ serum, urine or 1 g (1:4) tissue homogenate.

Mix/vortex. Add 2 mL of 100 mM phosphate buffer (pH 6.0). Mix/vortex.

Sample pH should be 6.0 ± 0.5

Adjust pH accordingly with 100 mM monobasic or dibasic sodium phosphate

Centrifuge as appropriate

2. CONDITION XTRACKT[®] DAU EXTRACTION COLUMN:

1 x 3 mL CH₃OH

1 x 3 mL D.I. H₂O

1 x 1 mL 100 mM phosphate buffer (pH 6.0)

NOTE: Aspirate at full vacuum or pressure

3. APPLY SAMPLE:

Load at 1 to 2 ml/minute

4. WASH COLUMN:

1 x 3 mL D.I. H₂O

1 x 2 mL 100 mM HCl

1 x 3 mL CH₃OH

Dry column (5 minutes at full vacuum or pressure)

5. ELUTE COCAINE AND BENZOYLECGONINE:

1 x 3 mL CH₂Cl₂/ IPA/ NH₄OH (78:20:2)

Collect eluate at 1 to 2 mL/ minute

NOTE: Prepare elution solvent daily. Add IPA/ NH₄OH, mix, then add CH₂Cl₂ (pH 11-12)

6. DRY ELUATE:

Evaporate to dryness at < 40 °C

7. DERIVATIZE:

Add 50 L ethyl acetate and 50 L BSTFA w/1% TMCS Overlay with Nitrogen and cap. Mix/vortex

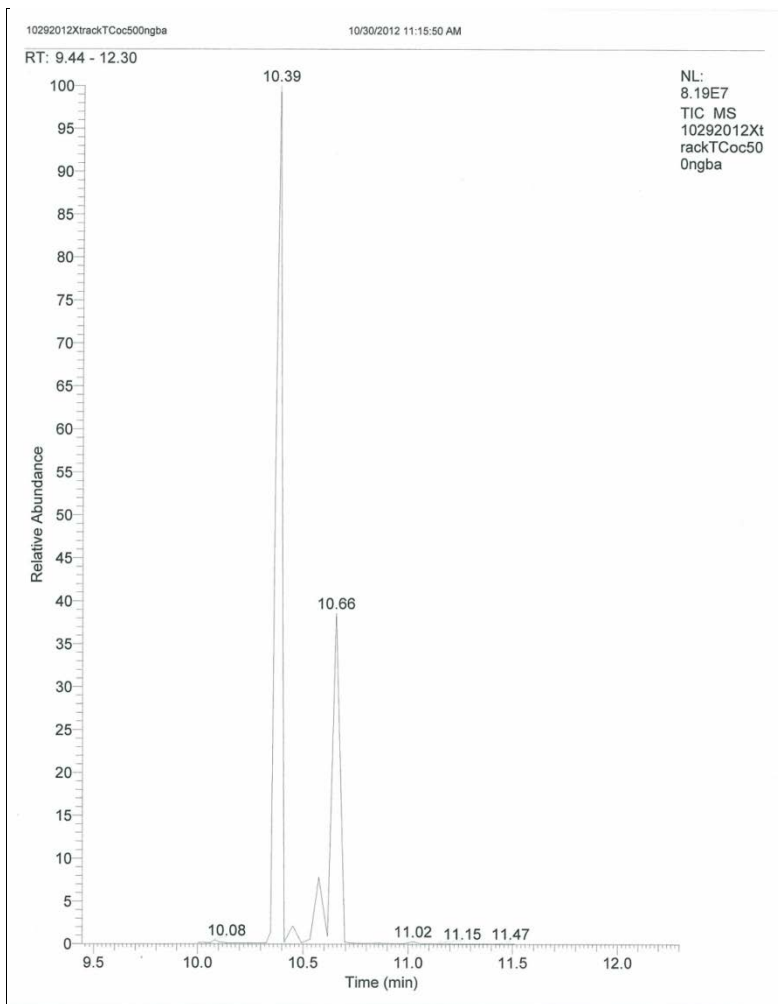
React 20 minutes at 70 °C

Remove from heat source to cool

NOTE: Do not evaporate BSTFA solution

8. ANALYZE:

Inject 1 to 2 µL



| Compound | Quantify Ion | Secondary Ion | Tertiary Ion |
|---|--------------|---------------|--------------|
| Cocaine | 182 | 198 | 303 |
| Cocaine-D ₃ [†] | 185 | 201 | 306 |
| Cocaethylene | 196 | 317 | 82 |
| Cocaethylene-D ₈ [†] | 204 | 325 | 196 |
| Benzoyllecgonine-TMS | 240 | 256 | 361 |
| Benzoyllecgonine-D ₃ -TMS [†] | 243 | 259 | 364 |

†Suggested internal standard for GC/MS