

Idaho State Police Forensic Services

Approval for Quality System Controlled Documents



Discipline/Name of Document: Toxicology Work Instructions

3.10.1 – Extraction and Quantitation of Δ^9 -Tetrahydrocannabinol (Δ^9 -THC) and 11-nor- Δ^9 -THC-9-COOH (Carboxy-THC) from Blood Employing the United Chemical Technologies (UCT) 200 mg CLEAN SCREEN[®] THC Extraction Column

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APPROVED BY:

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Quality Manager

6/29/07
Date Signed

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WORK INSTRUCTIONS

3.10.1 Δ^9 -Tetrahydrocannabinol (Δ^9 -THC) and 11-nor- Δ^9 -THC-9-COOH (c-THC) in Blood UCT 200 mg CLEAN SCREEN® THC Extraction Column

QUALITY ASSURANCE MATERIAL

Standards for the preparation of calibrators and controls must be obtained through different vendors. Working drug standard solutions are stable for 6 months when stored at 4°C.

Calibrator Preparation

1ng/ μ L Working Calibration Solution

Add 10.0 μ L each 1mg/mL c-THC and Δ^9 -THC stock solution to \approx 9mL Methanol in a 10mL volumetric class A flask. QS to 10mL.

0.1ng/ μ L Working Calibration Solution

Add 1.0mL 1ng/ μ L working calibration solution to \approx 5mL Methanol in a 10mL volumetric class A flask. QS to 10mL.

Add the volume of working mixed standard to appropriate tube as indicated below.

| Level | ng/mL | Working Solution (ng/ μ L) | Volume to add (μ L) |
|-------|-------|--------------------------------|--------------------------|
| 1 | 2.5 | 0.1 | 25 |
| 2 | 5 | 0.1 | 50 |
| 3 | 10 | 0.1 | 100 |
| 4 | 25 | 1.0 | 25 |
| 5 | 50 | 1.0 | 50 |
| 6 | 100 | 1.0 | 100 |

Positive Control Preparation

1.0ng/ μ L Working Control Solution

Add 100.0 μ L each 100 μ g/mL c-THC and Δ^9 -THC stock solution to \approx 9mL Methanol in a 10mL volumetric class A flask. QS to 10mL.

0.1ng/ μ L Working Control Solution

Add 1.0mL 1ng/ μ L working control solution to \approx 5mL Methanol in a 10mL volumetric class A flask. QS to 10mL.

Add the volume of working mixed standard to appropriate tube as indicated below.

| ng/mL | Working Solution (ng/ μ L) | Volume to add (μ L) |
|-------|--------------------------------|--------------------------|
| 6 | 0.1 | 60 |
| 60 | 1.0 | 60 |

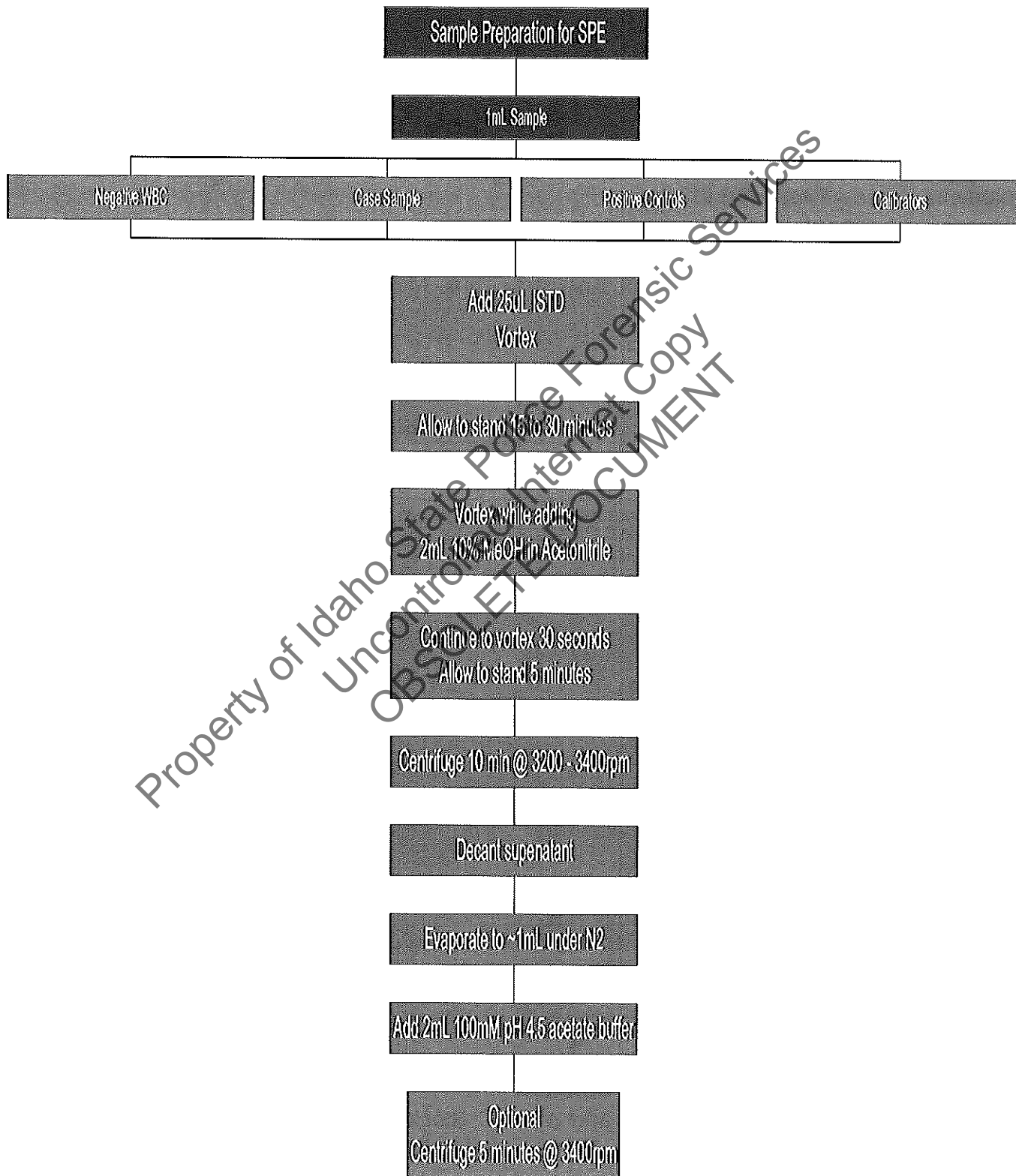
Internal Standard Preparation

1.0ng/ μ L Working Internal Standard Solution

Add 100.0 μ L each 100 μ g/mL c-THC and Δ^9 -THC Stock Solution to \approx 9mL Methanol in a 10mL volumetric class A flask. QS to 10mL. Solution is stable for 6 months when stored at 4°C.

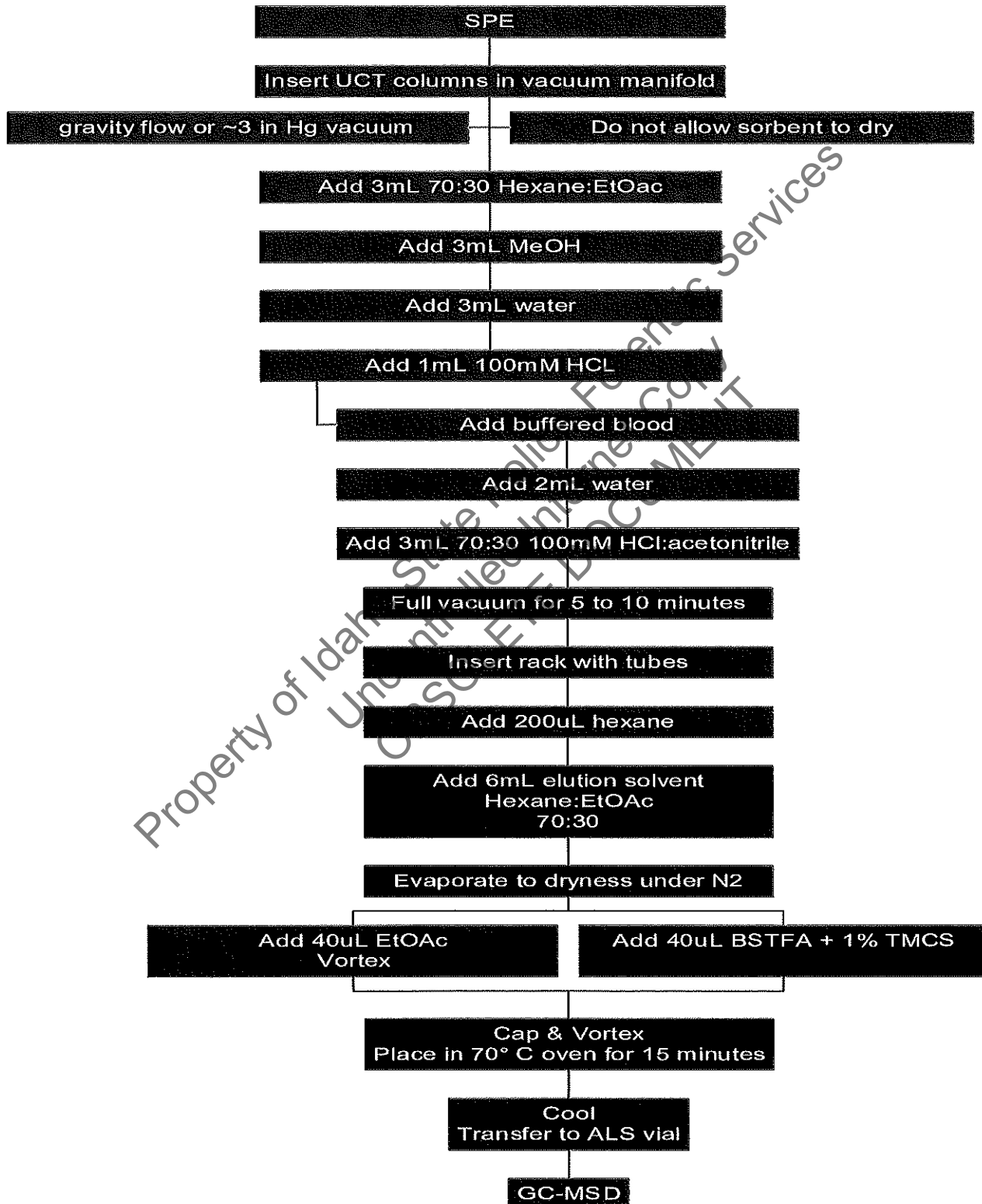
BENCH METHOD

3.10.1 Δ^9 -Tetrahydrocannabinol (Δ^9 -THC) and 11-nor- Δ^9 -THC-9-COOH (c-THC) in Blood UCT 200 mg CLEAN SCREEN® THC Extraction Column



BENCH METHOD

3.10.1 Δ^9 -Tetrahydrocannabinol (Δ^9 -THC) and 11-nor- Δ^9 -THC-9-COOH (c-THC) in Blood UCT 200 mg CLEAN SCREEN® THC Extraction Column



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