

Idaho State Police Forensic Services

Approval for Quality System Controlled Documents



Discipline/Name of Document: Toxicology Work Instructions
3.10.3 – Extraction and Quantitation of Free (Unbound) Codeine and Morphine in Blood
Employing the United Chemical Technologies (UCT) 200 mg CLEAN SCREEN[®] DAU
Extraction Column

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Quality Manager

6/29/07
Date Signed

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WORK INSTRUCTIONS

3.10.3 Free (Unbound) Codeine and Morphine in Blood UCT 200 mg CLEAN SCREEN® DAU Extraction Column

QUALITY ASSURANCE MATERIAL

Working Drug Standard Solutions

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

10ng/mL

Add 100.0µL each 1mg/mL Codeine and Morphine Stock Solution to ≈9mL Methanol in a 10mL volumetric class A flask. QS to 10mL.

1ng/mL

Add 1.0mL 10ng/µL working solution to ≈5mL Methanol in a 10mL volumetric class A flask. QS to 10mL.

Calibrator Preparation

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

Level	ng/mL	Working Solution (ng/µL)	Volume to add (µL)
1	25	1	25
2	50	1	50
3	100	1	100
4	250	10	25
5	500	10	50
6	1000	10	100

Spiked Positive Control Preparation

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

ng/mL	Working Solution (ng/µL)	Volume to add (µL)
75	1	75
750	10	75

1.0ng/µL Working Internal Standard Solution

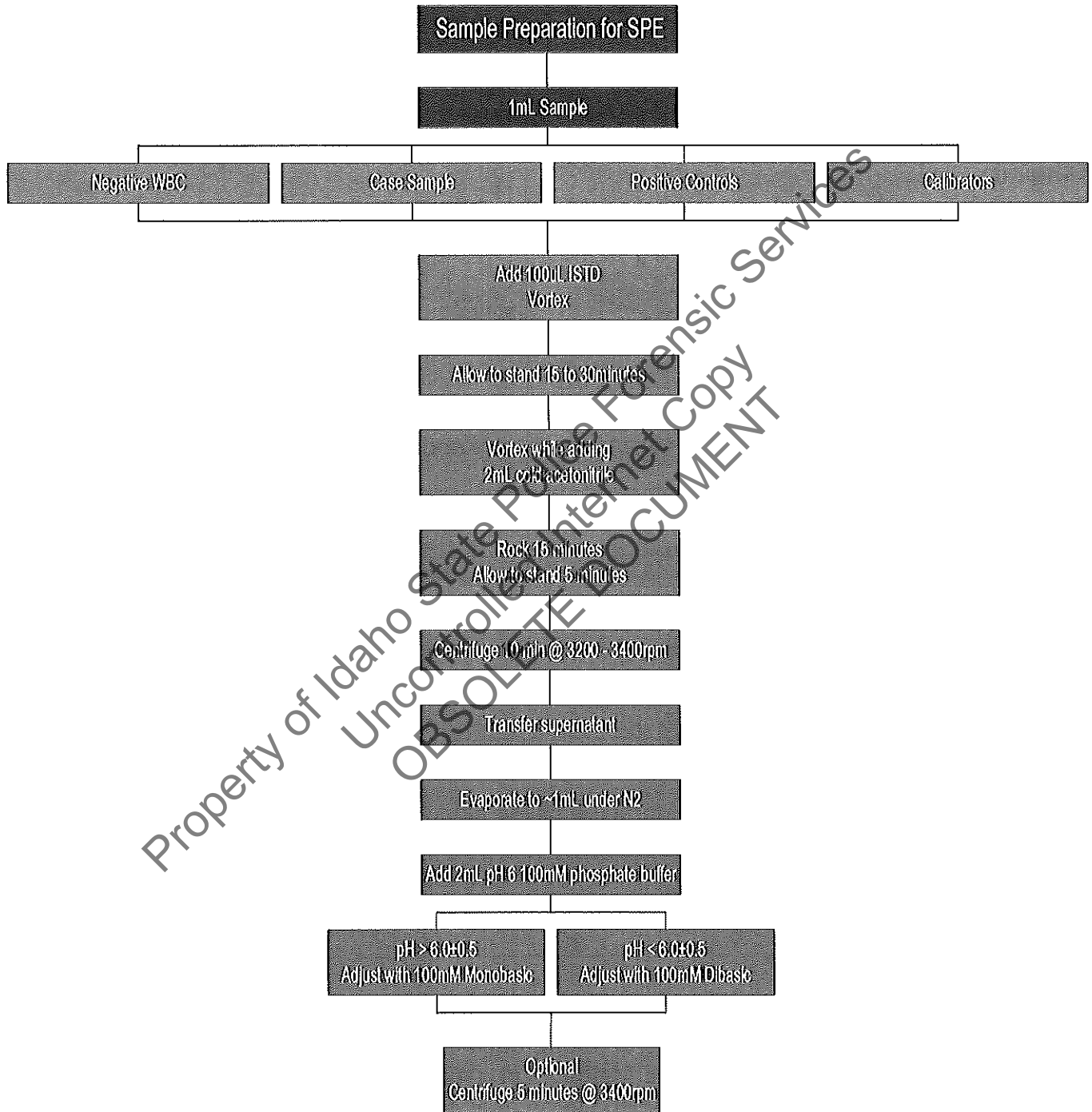
Add 10.0µL each 1mg/mL (1000ng/µL) or 100µL each 100µg/mL (0.1µg/µL) Codeine-D3 and Morphine-D3 Stock Solution to to ≈9mL Methanol in a 10mL volumetric class A flask. QS to 10mL. Solution is stable for 6 months when stored at 4°C.

Utak Positive Control

Catalog No: 98818. Control contains Codeine and Morphine each at a target of 100ng/mL. Refer to package insert for verified value and expected range.

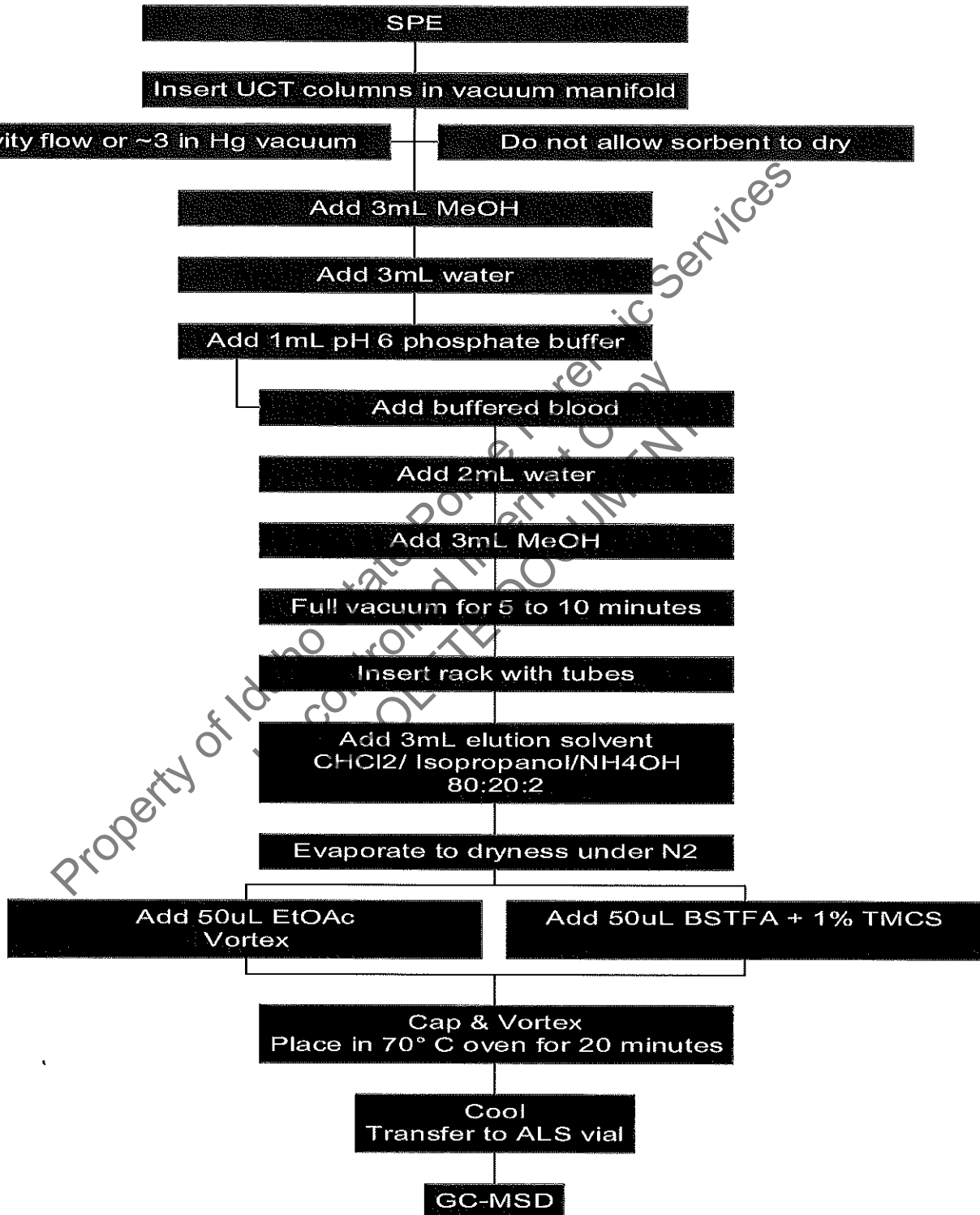
BENCH METHOD

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