

Idaho State Police Forensic Services

Approval for Quality System Controlled Documents



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

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APPROVED BY: *Coinna C. Pursey*
Quality Manager

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Date Signed

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WORK INSTRUCTIONS

3.10.4 Cocaine and Cocaine Metabolites in Blood UCT 200 mg CLEAN SCREEN® DAU Extraction Column

QUALITY ASSURANCE MATERIAL

Working Drug Standard Solutions

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.

10ng/μL

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

1ng/μL

Add 1.0mL 10ng/μL working solution to ≈8mL Methanol in a 10mL volumetric class A flask. QS to 10mL.

Calibrator Preparation

Add the volume of working Benzoylcegonine, Cocaine and Cocaethylene 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 Benzoylcegonine, Cocaine and Cocaethylene mixed standard to appropriate tube as indicated below.

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

1ng/μL Working Internal Standard Solution

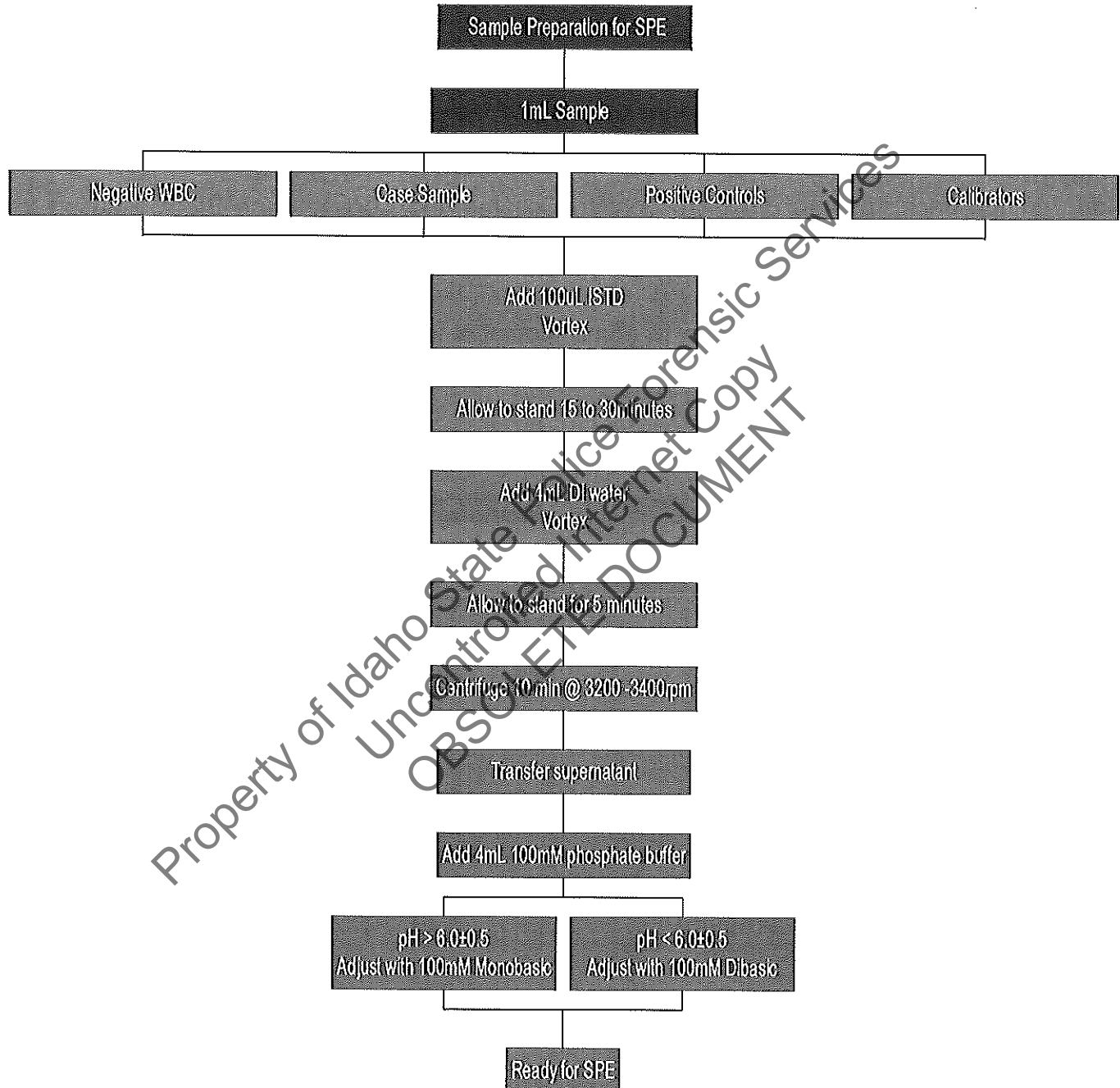
Add 100.0μL each 100μg/mL (100ng/μL) Stock Solution of Benzoylcegonine-D3, Cocaine-D3 and Cocaethylene-D3 to ≈9mL Methanol in a 10mL volumetric class A flask. QS to 10mL. Solution is stable for 6 months when stored at 4°C.

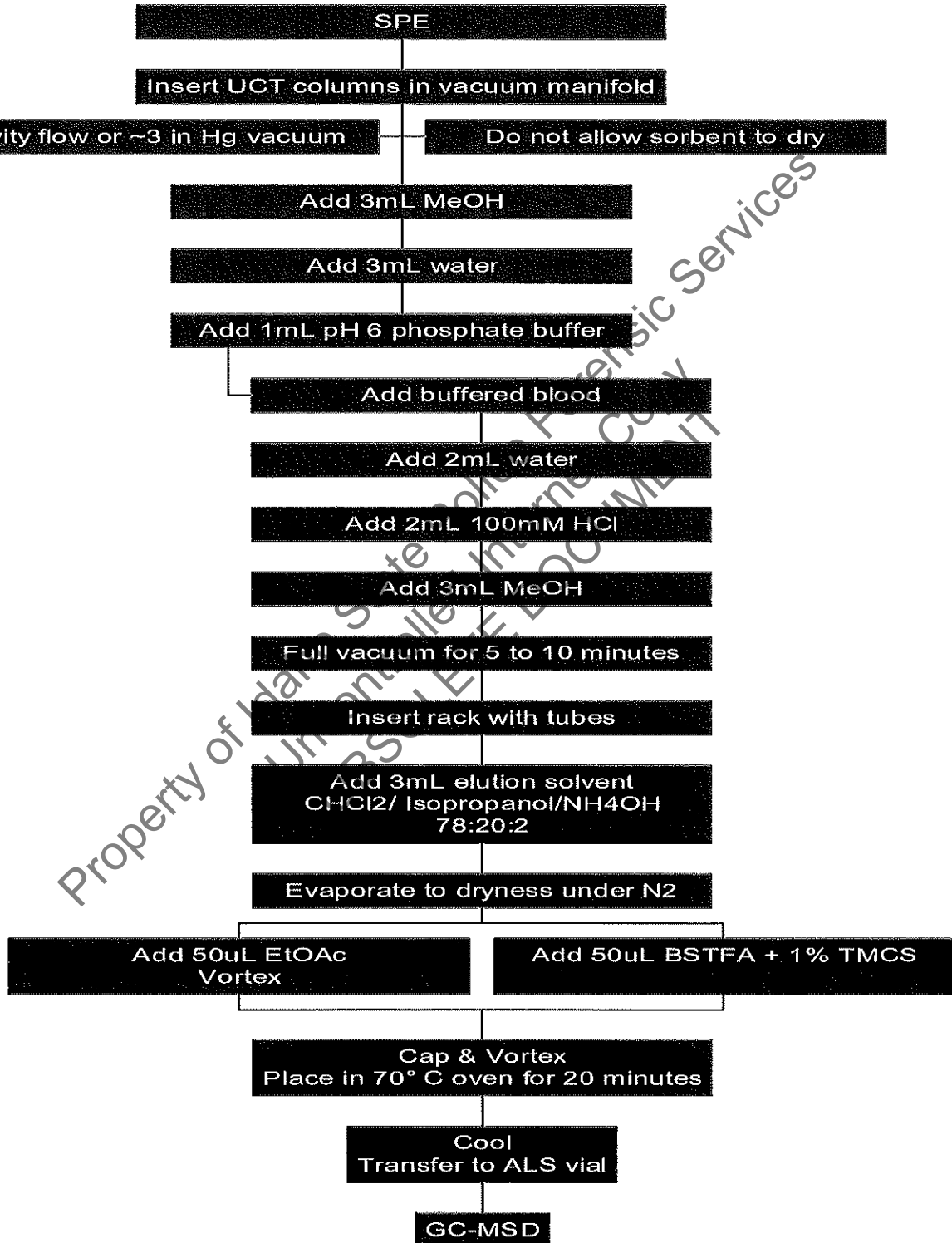
Utak Positive Control

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

BENCH METHOD

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UCT 200 mg CLEAN SCREEN® DAU Extraction Column**

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