

WORK INSTRUCTIONS

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

QUALITY ASSURANCE MATERIAL

Working Reference Material Solutions

Corresponding calibrator and control reference materials must be obtained from different vendors, or be from different lot numbers if suitable second vendors are not available. Working reference material solutions are stable for 6 months when stored under refrigeration.

10ng/mL

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

1ng/mL

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

Calibrator Preparation

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

Level	ng/mL	Working Solution (ng/ μ L)	Volume to add (μ L)
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 RM to appropriate tube as indicated:

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

1.0ng/ μ L Working Internal Standard Solution

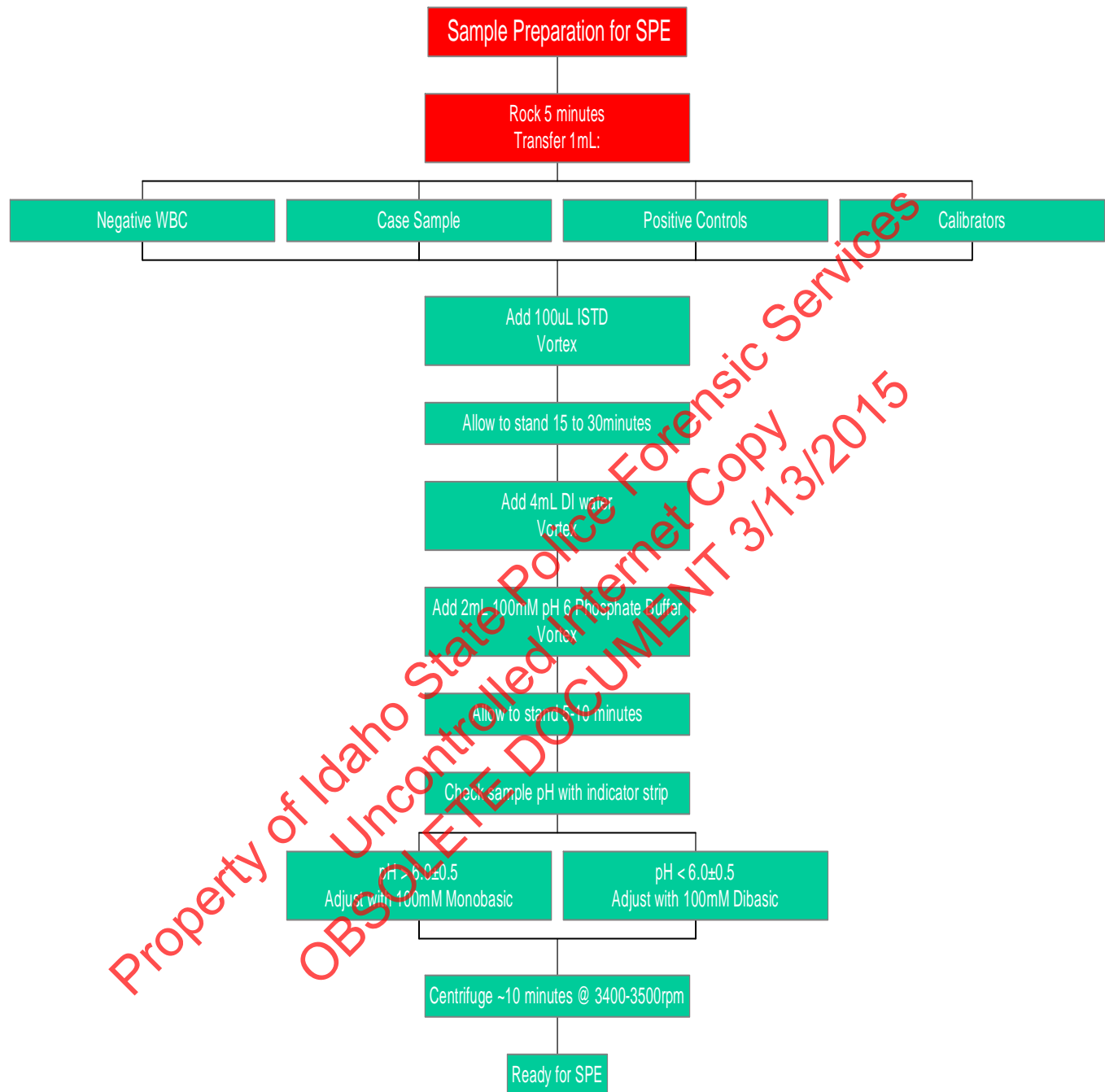
Add 10.0 μ L each 1mg/mL (1000ng/ μ L) or 100 μ L each 100 μ g/mL (0.1 μ g/ μ L) Codeine-D3 or Codeine-D6 and Morphine-D3 or Morphine-D6 Stock Solution to \approx 9mL Methanol in a 10mL volumetric class A flask. QS to 10mL. Solution is stable for 6 months when stored under refrigeration.

Commercial Blood Positive Control

Commercial controls must contain Codeine and Morphine each at a target concentration of 100ng/mL. Refer to package insert for verified value and expected range.

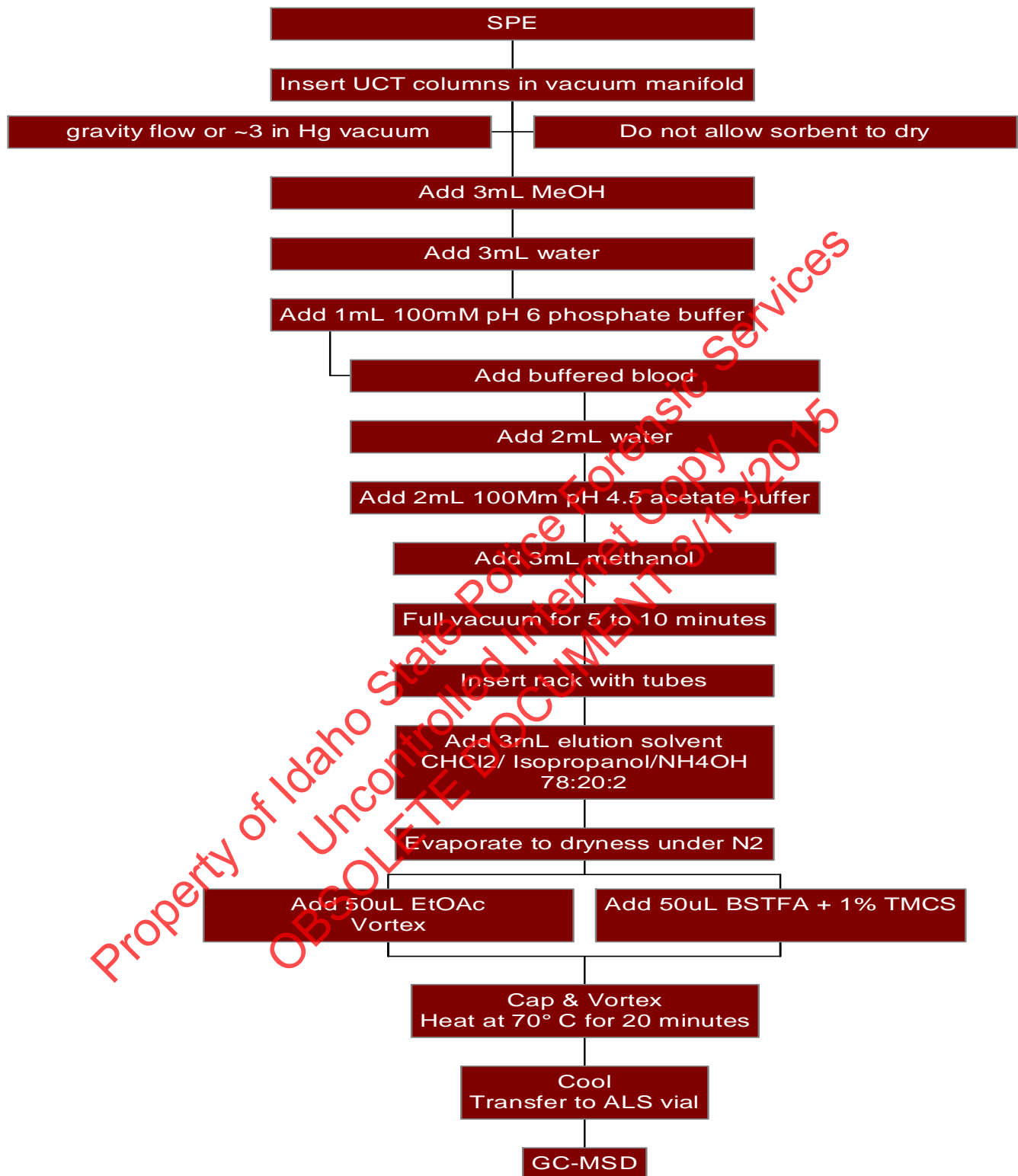
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Revision History

Revision No.	Issue Date	Revision/Comments
0	06-29-2007	Original Issue
1	03/07/2011	Clarified schemes, updated language
2	01/07/2013	Updated flow chart to reflect changes in method.

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