

WORK INSTRUCTIONS

2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

REFERENCE MATERIAL

Benzodiazepine Positive Control

- Stock Solutions
1 mg/mL single component or 250µg/mL multicomponent benzodiazepine class reference solutions.
- Direct spiking
Spike negative urine with 3µL of each single component stock or 12µL of 250µg/mL stock solution.
- Working Control Solution (10ng/µL)
Add 100µL each 1mg/mL or 400µL 250µg/mL Stock Solution to \cong 9mL MeOH in 10mL ball flask. Bring up to volume with MeOH. Solution is stable for one-year when stored under refrigeration. (Note: A minimum of two benzodiazepine class compounds must be included in the control solution. One of these compounds must form a TMS derivative.)

Conjugated Controls

- Commercially obtained conjugated control (example: Bio Rad C3)
- Stock Solution
1 mg/mL Oxazepam Glucuronide or 100µg/mL Lorazepam Glucuronide or 100µg/mL Morphine Glucuronide
- Direct spiking
Spike negative urine with 3µL of 1mg/mL stock solution or 30µL of 100µg/mL stock solution.
- Working Glucuronide Solution (10ng/µL)
Add 100µL of 1mg/mL Stock Solution (or 1mL 100µg/mL Stock Solution) to 10mL MeOH. Solution is stable for one year when stored under refrigeration.

Internal Standard

- Stock Solution
1mg/mL Prazepam.
- Direct addition
Add 3µL of 1mg/mL stock solution to each 6mL urine sample and control.
- Working Internal Standard Solution
Add 100µL Stock Solution to \cong 9mL MeOH in 10mL ball flask. Bring up to volume with MeOH. Solution is stable for one year when stored under refrigeration.

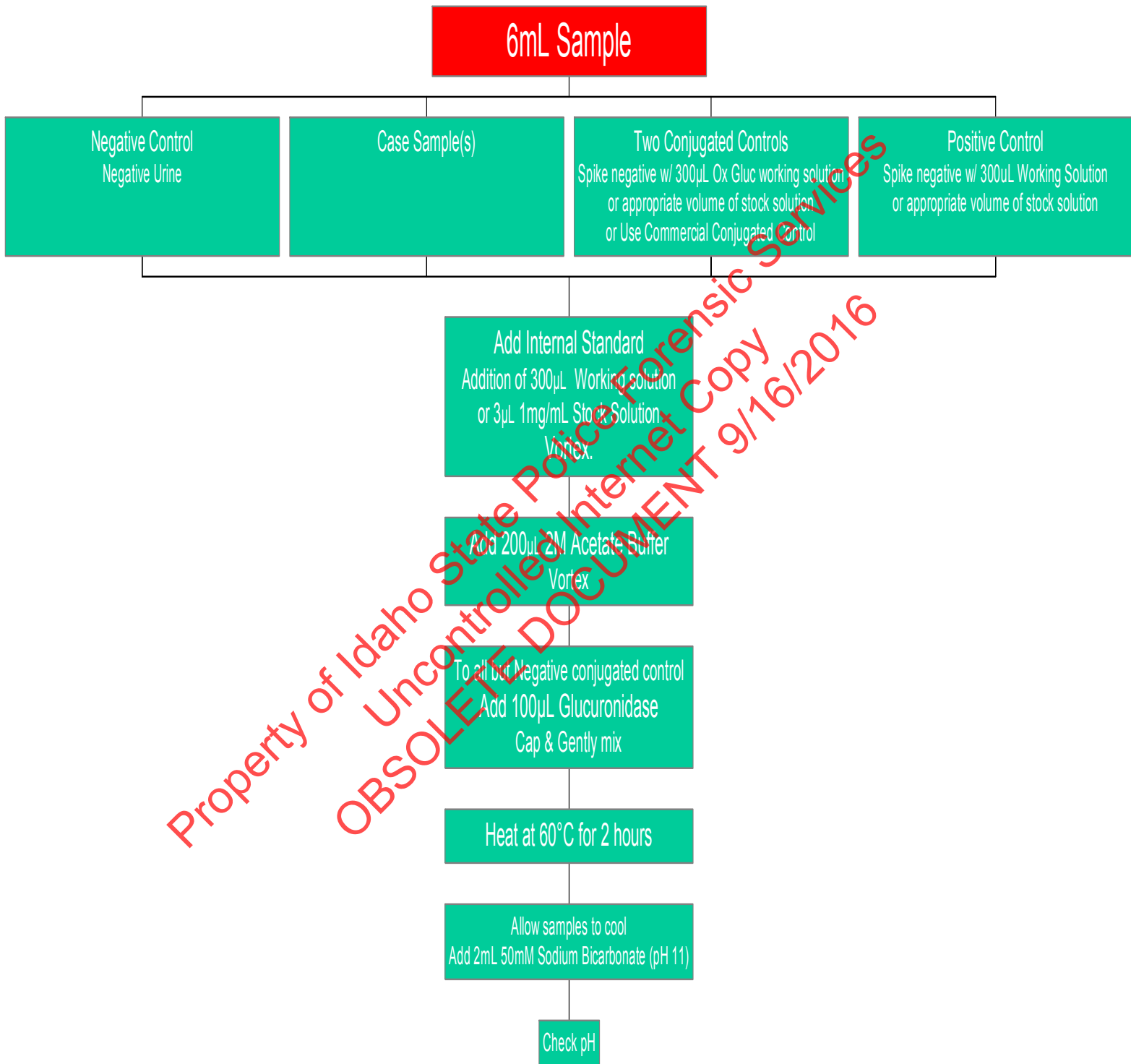
COMMENTS

This method has instructions for the preparation of both an underivatized and a TMS-derivatized extract. The analyst has the option of preparing either or both of these extracts.

WORK INSTRUCTIONS

2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

SAMPLE PREPARATION: Glucuronide Cleaving

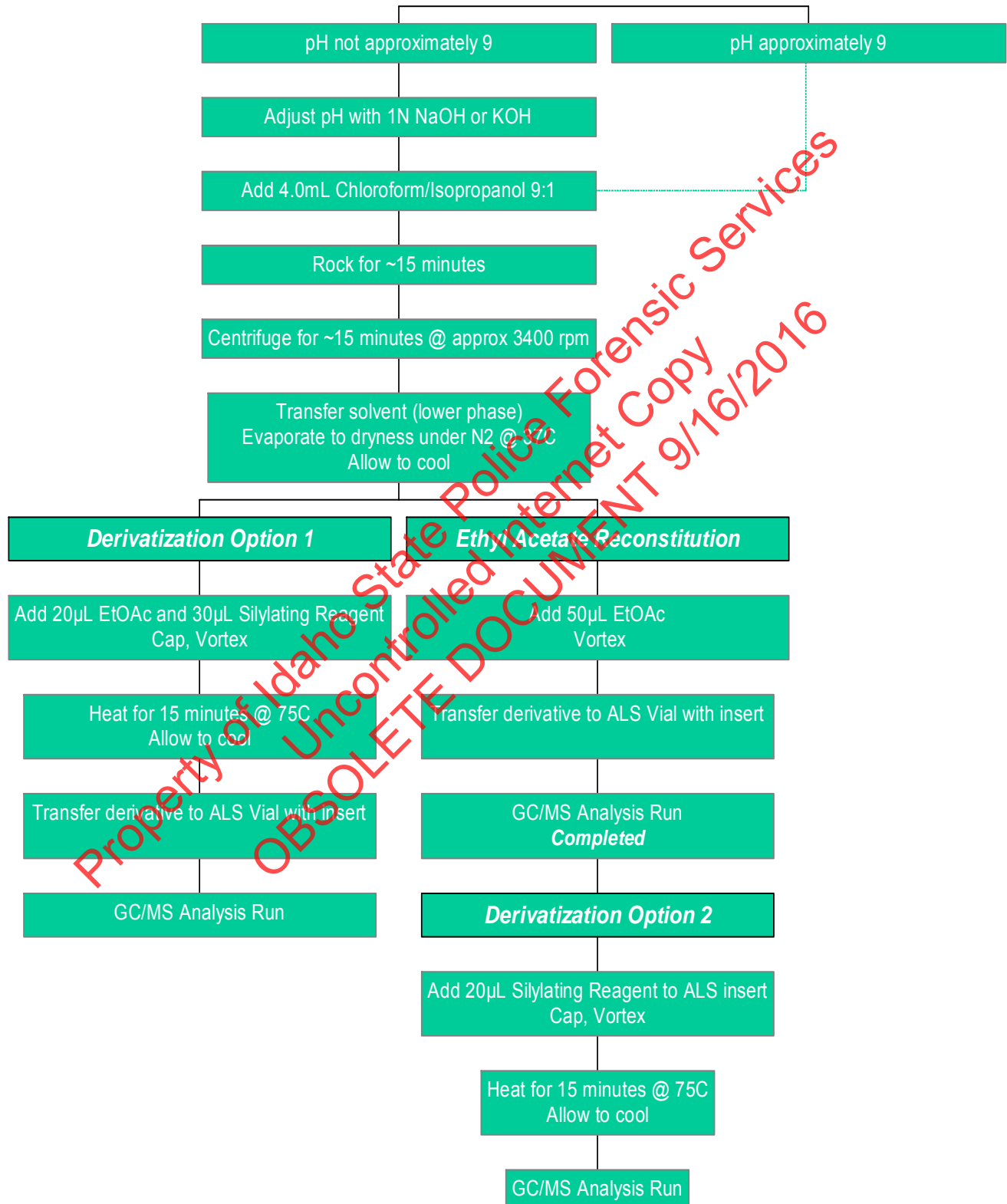


Property of Idaho State Police Forensic Services
Uncontrolled Internet Copy
OBSOLETE DOCUMENT 9/16/2016

WORK INSTRUCTIONS

2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

SAMPLE PREPARATION: Extraction and Reconstitution and/or Derivatization



Property of Idaho State Police Forensic Services
Uncontrolled Internet Copy
OBSOLETE DOCUMENT 9/16/2016

WORK INSTRUCTIONS

2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

SAMPLE PREPARATION: Extraction and Reconstitution and/or Derivatization

Revision History

Revision No.	Issue Date	Revision/Comments
0	05/15/2009	Original Issue
1	03/07/2011	?
2	04/10/2012	?
3	11/28/2012	?
4	04/02/2015	Added revision history.

Property of Idaho State Police Forensic Services
Uncontrolled Internet Copy
OBSOLETE DOCUMENT 9/16/2016