

# *Idaho State Police*

## *Forensic Services*

### *Approval for Quality System Controlled Documents*



Discipline/Name of Document: Toxicology Work Instructions  
2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

Revision Number: 0

Issue Date: 5/15/2009

APPROVED BY:

  
Quality Manager

5/15/09  
Date Signed

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## WORK INSTRUCTIONS

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### 2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

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#### REFERENCE MATERIAL

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##### Benzodiazepines

##### **Stock Solutions**

1 mg/mL single component and 250µg/mL multicomponent benzodiazepine class reference solutions.

##### **Working Control Solution (10ng/µL)**

A minimum of two benzodiazepine class compounds must be included in the control solution. One of these compounds must form a TMS derivative.

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.

##### Conjugated Control

##### **Stock Solution**

1 mg/mL Oxazepam Glucuronide

Morphine Glucuronide may be used if Oxazepam Glucuronide is not available.

##### **Working Glucuronide Solution (10ng/µL)**

Add 100µL Stock Solution to 10mL MeOH. Solution is stable for one year when stored under refrigeration.

##### Internal Standard

##### **Stock Solution**

1mg/mL Prazepam.

##### **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

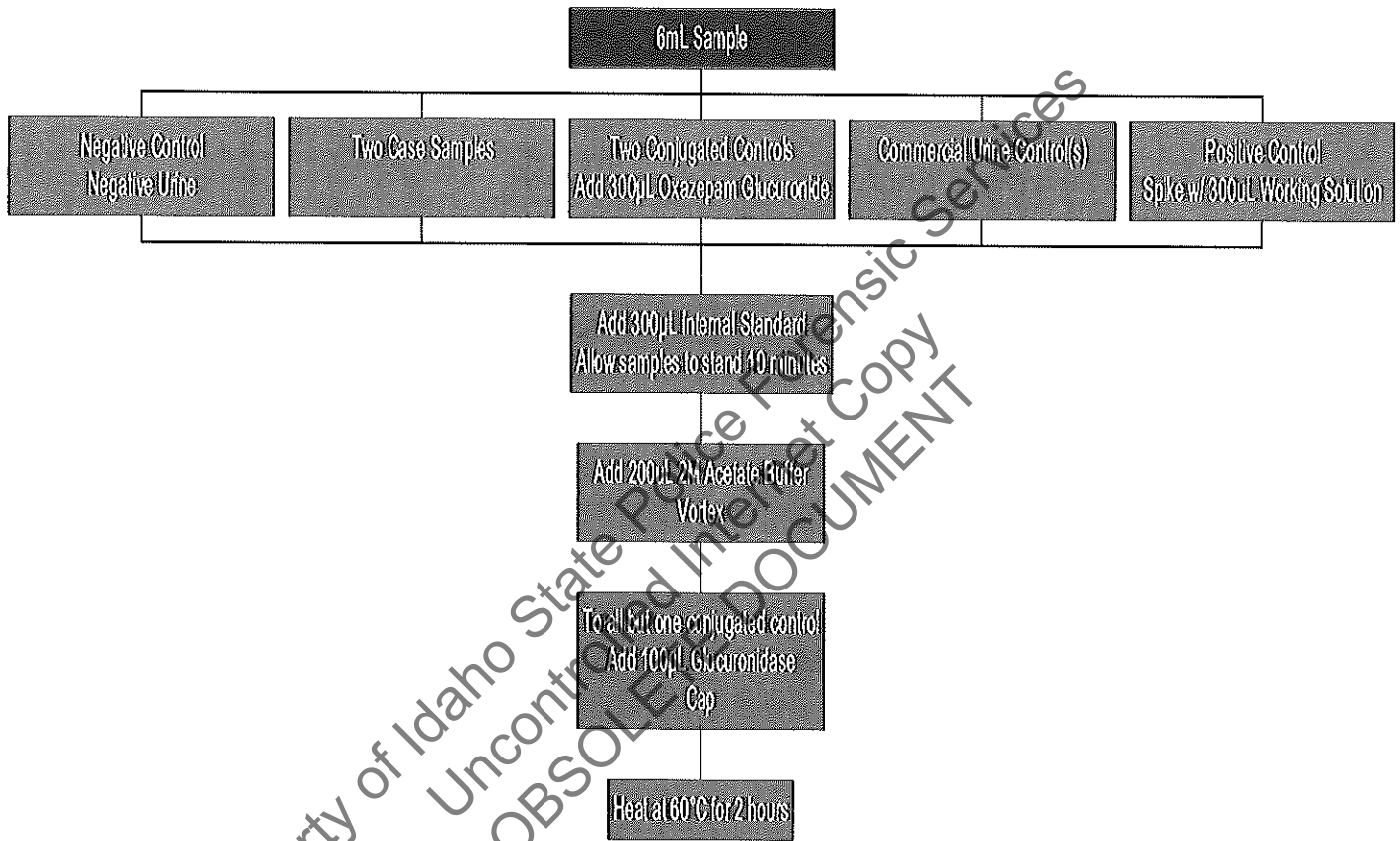
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This method has instructions for the preparation of both an underivatized and a TMS derivatized extract. The analyst has the option of preparing either or both of these extracts.

# WORK INSTRUCTIONS

## 2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

### SAMPLE PREPARATION: GLUCURONIDE CLEAVING

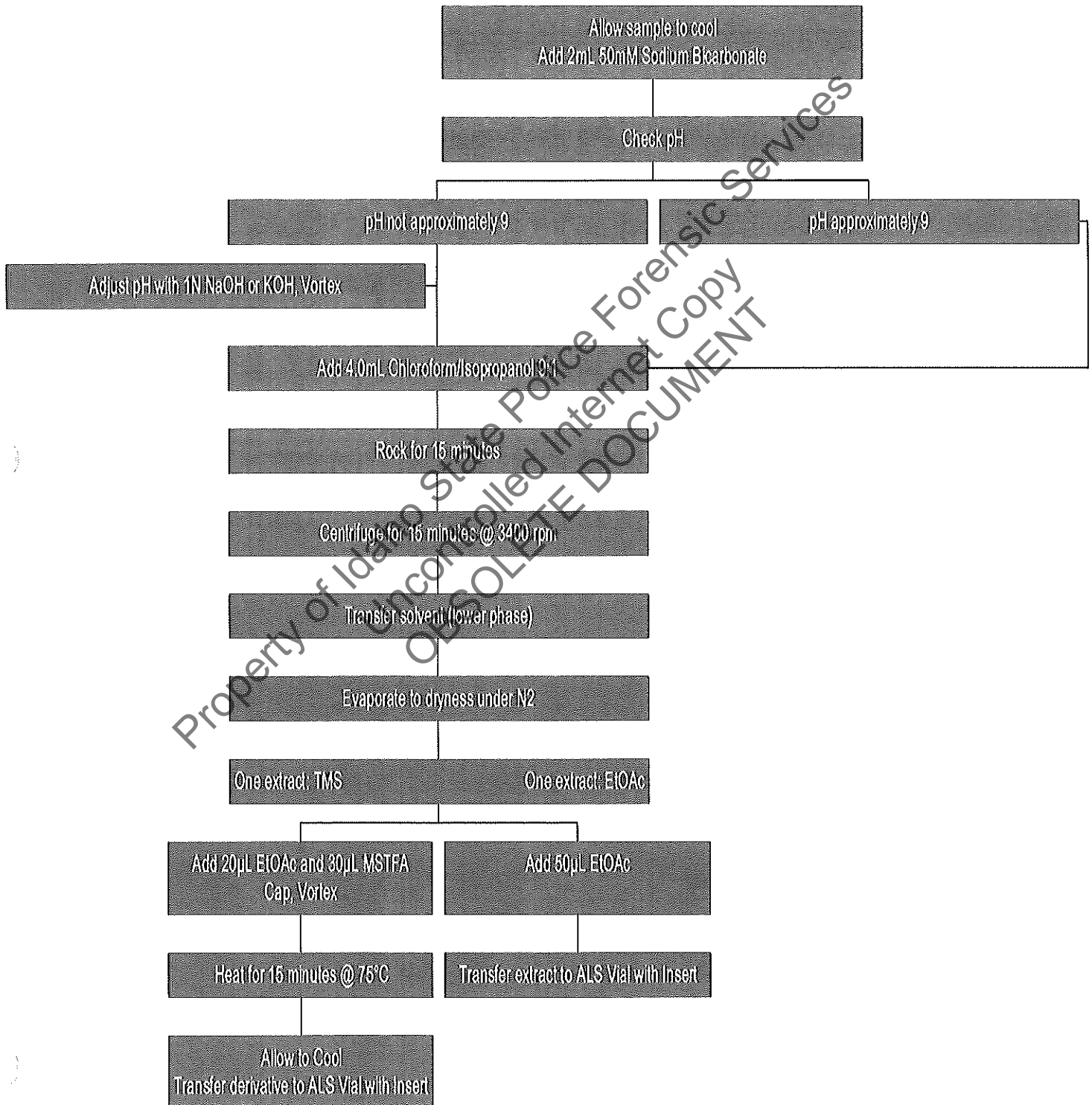


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## WORK INSTRUCTIONS

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#### SAMPLE PREPARATION: EXTRACTION



## WORK INSTRUCTIONS

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#### *Revision History*

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Revision No.	Issue Date	Revision/Comments
0	5/15/2009	Original Issue

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