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)

(Note: 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 9mL MeOH in 10mL ball flask. Bring up to volume with MeOH. Solution stable for one-year when stored under refrigeration.

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 30L of 1mg/mL stock solution or 30μL of 100μg/mL stock solution

Direct spiking

solution.

Working Glucuronide Solution (10ng/µL)

Add 100µLor 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 $100\mu L$ 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.

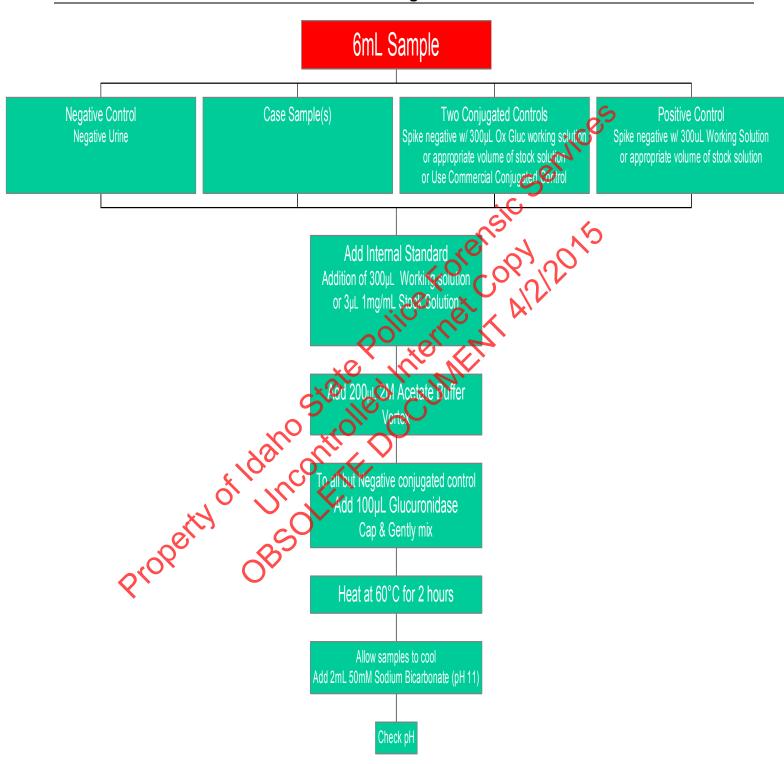
COMMENTS

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.

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SAMPLE PREPARATION: Glucuronide Cleaving



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2.4.3 Qualitative Confirmation of Benzodiazepines in Urine

SAMPLE PREPARATION: Extraction and Reconstitution and/or Derivatization

