

# Date-rape Drug Detection and Drink-Spiking Prevention:

## Assessing Current Methods and Proposing New Solutions

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### Problem

<p><b>Date-Rape Drugs</b> GHB/Ketamine/Rohypnol</p> <ul style="list-style-type: none"> <li>• no color, odor, taste</li> <li>• blackout effect</li> <li>• quick disappearance</li> </ul>	<p><b>Importance of Individual Level Prevention</b></p> <ul style="list-style-type: none"> <li>• intimate and private circumstances</li> <li>• home/bar/clubs</li> </ul>	<p><b>Institutional Efforts</b></p> <ul style="list-style-type: none"> <li>• local gov./org.</li> <li>• colleges/universities</li> <li>• AB-1013 in California</li> </ul>
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### New Solution

<p>GHB Test Colorimetric Paper Method</p>	<p>Ketamin Test Lateral Flow Method Competitive Immunoassay</p>	<p>Rohypnol Test Lateral Flow Method Competitive Immunoassay</p>
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**GHB, GBL, 1,4-BD**  
**Ketamine, Norketamine**  
**Benzodiazepine, Flunitrazepam(Rohypnol), Alprazolam, Diazepam, Diastat, Etizolam, Temazepam, Oxazepam, Nitrazepam, Lorazepam, Triazolam**

### Existing Methods

<p><b>Drink Cover (Physical Barrier)</b></p>	<p><b>Colorimetric Paper Test</b></p>	<p><b>Lateral Flow Test (Antigen)</b></p>	<p><b>Colorimetric Reagent Test</b></p>
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✗ Only Detects 1 or 2 Drugs

✗ Low Efficacy Low Accuracy

✗ Difficult to Use Hard to Read

✓ Single Test for All 3 Drug family

✓ High Efficacy High Accuracy

✓ User-friendly & Discreet