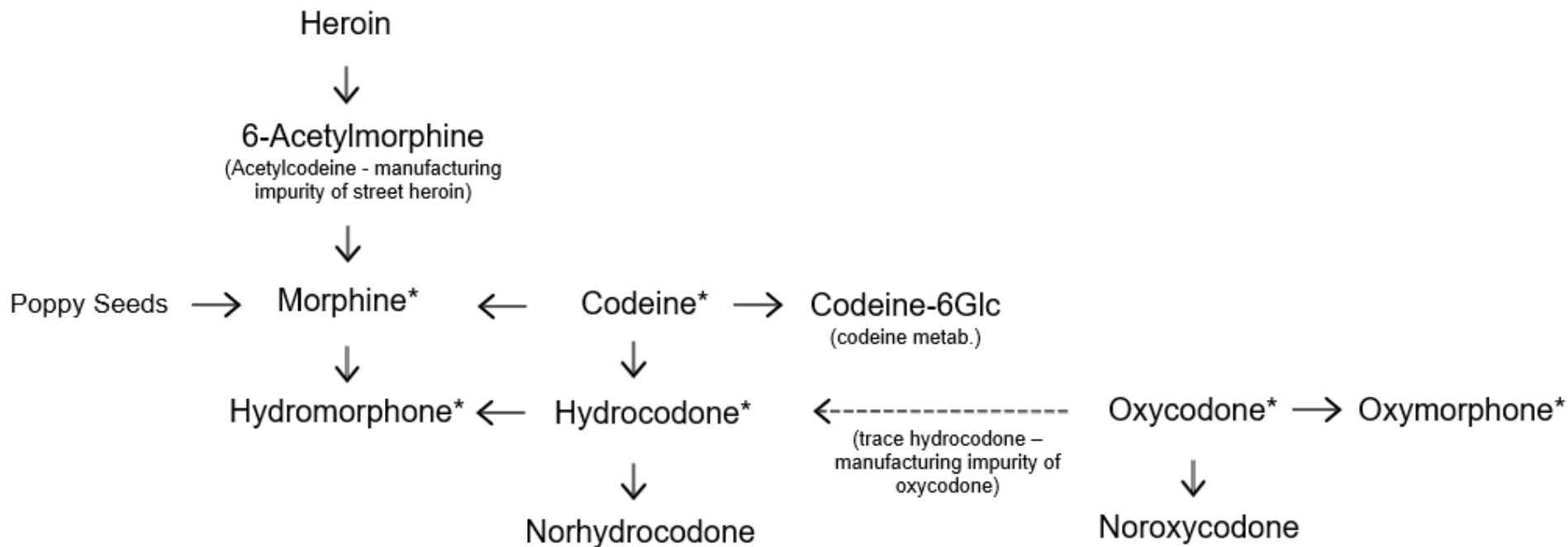


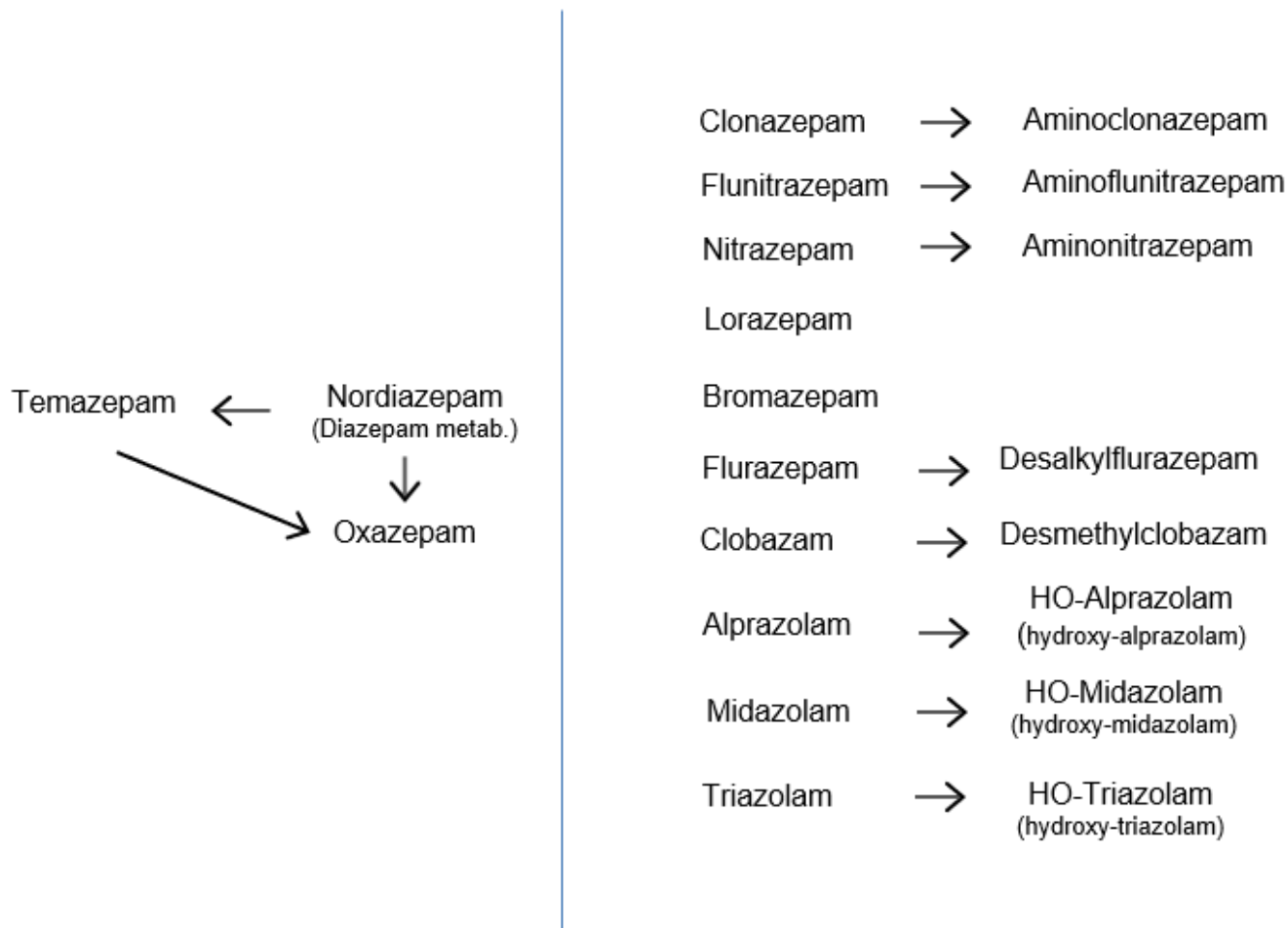
Figure 1. Principal Opiate Metabolic Pathways



*a compound could be a parent drug or metabolite

NOTE: This diagram includes only those opiates that can be detected by urine Broad Spectrum Toxicology Screen (BST) offered by LifeLabs ON

Figure 2. Principal Benzodiazepine Metabolic Pathways

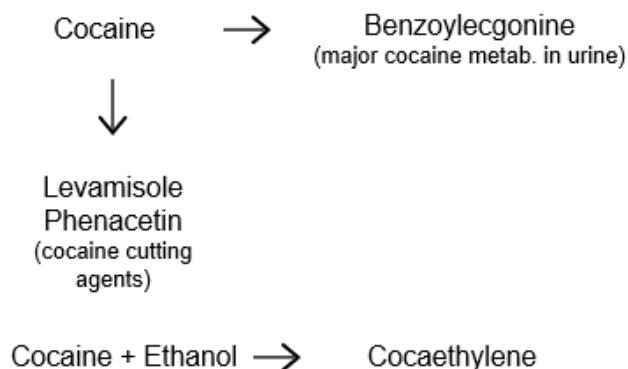


NOTE: This diagram includes only those prescription benzodiazepines that can be detected by urine Broad Spectrum Toxicology Screen (BST) offered by LifeLabs ON

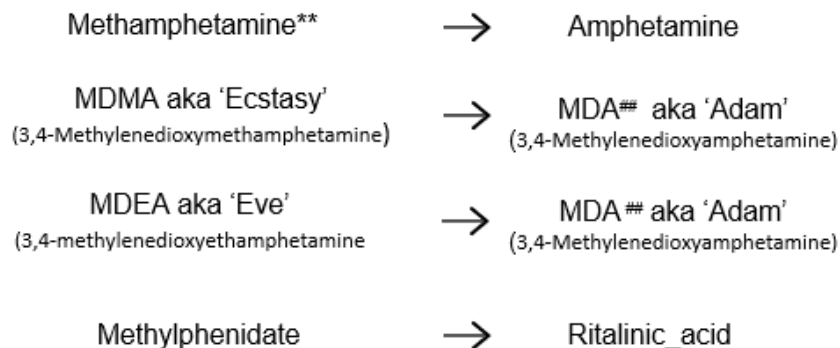
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Figure 3. Metabolic Pathways for Stimulants

a) Included in the 'Other' category of Broad Spectrum Tox Screen



b) Included in the 'Amphetamines' category of Broad Spectrum Tox Screen



** Methamphetamine reported as the total of the undifferentiated d and l enantiomers. Ephedrine or pseudoephedrine can be detected with high levels of methamphetamine. Both can be used as precursors of illicitly manufactured methamphetamine.

MDA is a metabolite of MDMA and MDEA but can be also abused on its own.

NOTE: This diagram includes only those compounds that can be detected by urine Broad Spectrum Toxicology Screen (BST) offered by LifeLabs ON

URINE DRUG TESTING METABOLIC PATHWAYS BST - REFERENCE DOCUMENT

Figure 4. Novel Psychoactive Substances (NPS) included in LifeLabs ON Broad Spectrum Tox Screen

Reported under BST Category of:	List of NPS compounds
Opioids	<p>Nitazene Opioids:</p> <ul style="list-style-type: none"> • Isotonitazene/N-Desethylisotonitazene • N-Desethylmetonitazene • Nitazene/HO-Nitazene • Protonitazene/N-Desethylprotonitazene
	<p>Fentanyl Analogues/Derivatives:</p> <ul style="list-style-type: none"> • Acetylfentanyl • Carfentanil • Para-Fluorofentanyl
Amphetamines	<p>Substituted Cathinones aka 'Bath Salts':</p> <ul style="list-style-type: none"> • Butylone • Ethylone • MDPV (Methylenedioxypropylvalerone) • Mephedrone • Methcathinone (also as manufacturing impurity of ephedrine and pseudoephedrine) • Methedrone • Methylone • α-PVP (Desmethyl Pyrovalerone) <p>Other 'Designer Drugs':</p> <ul style="list-style-type: none"> • TFMPP (3-Trifluoromethylphenylpiperazine)
Designer Benzodiazepines	<ul style="list-style-type: none"> • Bromazolam • Etizolam • Flualprazolam • Flubromazepam • Flubromazolam
Tranquillizers (large animal tranquilizers often cutting agents in unregulated fentanyl)	<ul style="list-style-type: none"> • Xylazine/Dimethylaniline

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