

Urinary Analytes for Patients Taking Benzodiazepine Medications

Understanding Benzodiazepine Class Metabolism

Quantitative urine analysis by LC/MS/MS has the capability of detecting analytes of frequently prescribed benzodiazepine medications: alprazolam, chlordiazepoxide, clonazepam, clorazepate, diazepam, flurazepam, lorazepam, oxazepam, prazepam, temazepam, and triazolam.

DRUG	URINARY ANALYTES
Alprazolam (Xanax®)	Alprazolam, Alpha-hydroxyalprazolam
Chlordiazepoxide (Librium®)	Nordiazepam, Oxazepam
Clonazepam (Klonopin®)	7-Aminoclonazepam
Clorazepate (Tranxene®)	Nordiazepam, Oxazepam
Diazepam (Valium®)	Nordiazepam, Temazepam, Oxazepam
Flurazepam (Dalmane®)	2-Hydroxyethylflurazepam
Lorazepam (Ativan®)	Lorazepam
Oxazepam (Serax®)	Oxazepam
Prazepam (Centrax®)	Nordiazepam, Oxazepam
Temazepam (Restoril®)	Temazepam, Oxazepam
Triazolam (Halcion®)	Alpha-hydroxy-triazolam

References:

1. Baselt RC. Disposition of Toxic Drugs and Chemicals in Man. 7th Edition, Biomedical Publications, Foster City, CA, 2004.