

Carisoprodol



Urine Homogeneous Enzyme Immunoassay

Catalog # 331-0100 (100 mL)

Catalog # 331-0500 (500 mL)

Brand Name: Soma®

Chemical Name: N- isopropyl-2-methyl-2-propyl-1,3-propanediol dicarbamate

Molecular Formula: C₁₂H₂₄N₂O₄

Description: A carbamate derivative first synthesized in 1959. A white, crystalline powder, having a mild, characteristic odor and a bitter taste

Indications: For the relief of discomfort associated with acute, painful musculoskeletal conditions

Use: Muscle relaxant and sedative

Form: Round, white tablets

Dosage: 350 mg x 3 per day

Warnings and Precautions:

- May impair ability to perform hazardous tasks
- Additive sedative effects when used with other CNS depressants including alcohol
- Cases of drug dependence, withdrawal and abuse
- Seizures

Adverse Reactions: Drowsiness, dizziness and headache

Length of Use: Short term treatment up to two or three weeks

Elimination half life: Carisoprodol: 4 – 6 hours
Meprobamate: 6-17 hours (naïve user) and up 48 hours (chronic user).

Facts: 10.58 million prescriptions of Carisoprodol were dispensed in the U.S. in 2008. Carisoprodol and Meprobamate are among the 10 most frequently identified drugs in drug-impaired driving cases.¹



Urine

 Oral Fluid

 Blood

 Meconium

 Tissue Extract

 Vitreous

IMMUNALYSIS

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Carisoprodol

Precision (n=64)			
Concentration (ng/mL)	Mean (mAu/min)	Standard Deviation	Coefficient of Variation (%)
50	0.3353	0.0030	0.9
75	0.3796	0.0026	0.7
100	0.3928	0.0028	0.7
125	0.4099	0.0038	0.9
200	0.4255	0.0035	0.8
500	0.4585	0.0037	0.8
1000	0.4985	0.0036	0.7

Accuracy (n=117) Cut off:100 ng/mL		
Sensitivity: 100%	Specificity: 100%	Accuracy: 100%

LC-MS/MS		
	Positive	Negative
HEIA		
Positive	44	0
Negative	0	42

Cross Reactivity (ng/mL)			
Analyte	Concentration (ng/mL)	Carisoprodol Equivalents	% Cross Reactivity
Carisoprodol	100	100	100%
Meprobamate	1000	100	10%

Reference standards available at Cerilliant
We rely on Cerilliant standards



1.800.848.7837

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Cerilliant Reference Standards	
Item #	Description
C-077	Carisoprodol, 1.0 mg/mL
C-042	Carisoprodol, 500 mg
M-039	Meprobamate, 1.0 mg/mL

(1) L. Farrell, et al. Recommendations for toxicological investigation of drug impaired driving. J. Forensic Sci. 52, 1214-1218(2007).



Urine

