



Certificate of Analysis

Forensic Toxicology Comprehensive Mix – Submix 9C

Agilent Part Number: 5190-0564C

Sample Lot Number: CM-3220

This analytical reference material was manufactured and verified in accordance with an ISO 9001 registered quality system, and the analyte concentrations were verified by an ISO 17025 accredited laboratory. The certified value for each analyte was determined gravimetrically.

Analyte	CAS#	Analyte Lot	Certified Value
Hydrocodone (+) bitartrate (as Hydrocodone)	000143-71-5 (000125-29-1)	RM06134	100.3 ± 0.5 µg/mL
(d)-Propoxyphene hydrochloride (as Propoxyphene)	001639-60-7 (000469-62-5)	RM06475	99.9 ± 0.5 µg/mL
Norpropoxyphene maleate (as Norpropoxyphene)	038910-73-5 (003376-94-1)	RM06011	100.4 ± 0.5 µg/mL
Tramadol hydrochloride (as Tramadol)	036282-47-0 (046941-76-8)	RM05793	99.8 ± 0.5 µg/mL
O-Desmethyltramadol	073986-53-5	RM06167	100.0 ± 0.5 µg/mL
Pentazocine	000359-83-1	RM05844	100.0 ± 0.5 µg/mL
Naltrexone hydrochloride trihydrate (as Naltrexone)	016676-29-2 (016590-41-3)	RM05800	100.2 ± 0.5 µg/mL
Morphine glucuronide	020290-10-2	RM09607	100.0 ± 0.5 µg/mL

Solvent: acetonitrile / water (9:1)

Calibrated Class A glassware and clean bottles were used in the manufacture of this standard. Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

Storage: Store at Room Temperature (18-25°C), Do Not Refrigerate

Date of release: 15 June 2015

Date of expiration: 31 June 2016



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