



## Certificate of Analysis

### Forensic Toxicology Comprehensive Mix – Submix 9A

**Agilent Part  
Number:** 5190-0564A

**Sample Lot  
Number:** CM-3226

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
Codeine	000076-57-3	RM05722	100.3 ± 0.5 µg/mL
Acetylcodeine	006703-27-1	RM06462	100.2 ± 0.5 µg/mL
Dihydrocodeine bitartrate (as Dihydrocodeine)	005965-13-9 (N/A)	RM06473	100.1 ± 0.5 µg/mL
Hydromorphone hydrochloride (as Hydromorphone)	000071-68-1 (000466-99-9)	RM06417	100.2 ± 0.5 µg/mL
Oxycodone hydrochloride (as Oxycodone)	000124-90-3 (000076-42-6)	RM06142	100.2 ± 0.5 µg/mL
EDDP iodide (as EDDP)	N/A (N/A)	RM06594	100.2 ± 0.5 µg/mL
Buprenorphine hydrochloride (as Buprenorphine)	053152-21-9 (052485-79-7)	RM05852	100.4 ± 0.5 µg/mL
Normeperidine hydrochloride (as Normeperidine)	024465-45-0 (000077-17-8)	RM06463	100.1 ± 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/NCCL 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 July 2016

  
William J. Leary  
Quality Assurance Manager