

Toxicology Report

TRMC-Mineral King Laboratory, 880 E. Merritt Ave., STE 107-108, Tulare, CA 93274
Phone: (559) 685-3456 Fax: (559) 685-8745
Directors: Gary Walter M.D. - Jue-Rong Zhang M.D. Ph.D - Sharon Fong C.L.S.



Collected By: Richard Hernandez
Date/Time Collected: 6/16/2015 21:00
Date/Time Received: 6/17/2015 13:30
Completion date: 6/23/2015 13:49

Name/DOB: [REDACTED] [REDACTED] [REDACTED]
Accession #: 1505632
Case Number: 15-0928

Specimen Type: BLOOD

LINDSAY POLICE DEPT
P O Box 369
Lindsay, CA 93247
(559) 562-2511

IGRAY-ELAV
OFFENSE: HS 11556/OFFICER: ROMERO/ 217
DRIVER LICENSE NUMBER: B1673532

Blood Drug Screen {by ELISA} Results

Approved by: SM

<u>Amphetamines</u>	<u>See Amphetamine Confirmation</u>
Barbiturates	Negative
Cannabinoids	Negative
Cocaine (Metabolite)	Negative
Benzodiazepines	Negative
Opiates	Negative
Phencyclidine	Negative

Amphetamine Confirmation {GC/MS} Results

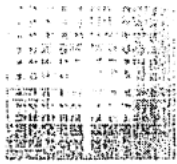
Approved by: SC

Amphetamine	Not detected or below reporting level
Methamphetamine	Not detected or below reporting level
Ephedrine	Not detected
Pseudoephedrine	Not detected
Phenylpropanolamine	Not detected
Phentermine	Not detected
MDMA, MDA, MDEA	Not detected

Reviewed by:

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MKL ELISA Drug Screen Limits of Detection [i]

Approved by: [i]

PANEL	THRESHOLD
Amphetamines	5 ng/mL
Methamphetamines	5 ng/mL
Barbiturates	5 ng/mL
Cocaine	10 ng/mL
Benzodiazepines	5 ng/mL
Opiates	5 ng/mL
PCP	5 ng/mL
THC	5 ng/mL

A cut-off of 10 ng/mL was adopted and validated by MKL to ensure the detection of all true positives.

Blood Reference Ranges & GC/MS Lower Quant Levels [i]

Approved by: [i]

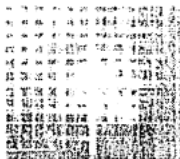
Drug	Reference Ranges	Source	GC/MS Lower Quantitation Level
Amphetamines	35-111 ng/mL	[1,2]	20 ng/mL
Methamphetamine	10-50 ng/mL	[1,2]	20 ng/mL
Butalbital	1,500-2,100 ng/mL	[1]	20 ng/mL
Pentobarbital	1,200-3,100 ng/mL	[1]	20 ng/mL
Phenobarbital	700-19,000 ng/mL	[1]	20 ng/mL
Secobarbital	2,000 ng/mL	[1]	20 ng/mL
Cocaine	11-280 ng/mL	[1]	20 ng/mL
Benzylmorphine	N/A		20 ng/mL
Alprazolam	19-55 ng/mL	[1,2]	100 ng/mL
Diazepam	148-1,030 ng/mL	[1]	25 ng/mL
Clonazepam	180-2,000 ng/mL	[2,3]	25 ng/mL
Temazepam	200-1,100 ng/mL	[2]	50 ng/mL
Codaine	30-134 ng/mL	[1]	20 ng/mL
Morphine	20-440 ng/mL	[1]	20 ng/mL
Flunitrazepam	7-300 ng/mL	[1,2]	1 ng/mL

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Blood Reference Ranges & GC/MS Lower Quant Levels [1] (cont'd)

Approved by: [1]

Delta-9-THC	Peak (11 minutes after smoking) 46-188 ng/mL After 3 hours, .7-1.2 ng/mL	[2]	1 ng/mL
THC-COOH	N/A		5 ng/mL

Sources:

1. DiMaio, Vincent J., DiMaio Dominick, Forensic Pathology, 2nd Edition, CRC Press LLC, 2000 N.W. Corporate Blvd., Boca Raton, Florida 33431, 2001.
2. Baselt, Randall C., Ph.D Disposition of Toxic Drugs and Chemicals in Man, 7th Edition. Biochemical Publications, PO Box 5299, Foster City, CA 94404, 2004.
3. Moffat, Anthony C, Osselton, David, Widdop, Brian, Clarke's Analysis of Drugs and Poisons, 3rd Edition, Vol.2, Pharmaceutical Press, 2004.