

Practice Name

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: EDUARDO RUVALCABA
Date/Time Collected: 6/16/2015 2:55 PM
Date/Time Received: 6/17/2015 1:30 PM
Completion date: 6/24/2015 2:29 PM

Name/DOB: [REDACTED]
Accession #: 1505634
Case Number: 15-0552 [REDACTED]

Specimen Type: BLOOD

FARMERSVILLE POLICE DEPT
909 W. VISALIA ROAD
Attn: Alvarez
Farmersville, CA 93223

IGRAY-1LAV
OFFENSE: HS 11377/11364/11550/OFFICER: J. MCRBRIDE # 840
DRIVER LICENSE NUMBER: Not provided on chain of custody

Blood Drug Screen {by ELISA} Results

Approved by: SM

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

Amphetamine Confirmation {GC/MS} Results

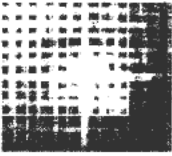
Approved by: SC

<u>Amphetamine</u>	<u>85</u>	ng/mL
<u>Methamphetamine</u>	<u>1101</u>	ng/mL
Ephedrine	Not detected	
Pseudoephedrine	Not detected	
Phenylpropanolamine	Not detected	
Phentermine	Not detected	
MDMA, MDA, MDEA	Not detected	

Benzodiazepine Confirmation {GC/MS} Results

Approved by: SC

Alprazolam	Not detected or below reporting level
Diazepam	Not detected or below reporting level
Nordiazepam	Not detected or below reporting level
Oxazepam	Not detected or below reporting level
Temazepam	Not detected or below reporting level
Alpha-hydroxyalprazolam	Not detected
Lorazepam	Not detected



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MKL ELISA Drug Screen Limits of Detection[i]

Approved by: [i]

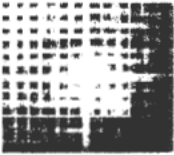
PANEL	THRESHOLD
Amphetamines	5 ng/mL
Methamphetamines	5 ng/mL
Barbiturates	5 ng/mL
Cocaine	10 ng/mL
Benzodiazepines	5 ng/mL
Opiates	5 ng/mL
ECP	5 ng/mL
THC	5 ng/mL

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
Amphetamine	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	700-18,000 ng/mL	[1]	20 ng/mL
Secobarbital	2,000 ng/mL	[1]	20 ng/mL
Cocaine	11-200 ng/mL	[1]	20 ng/mL
Benzoyllecgonine	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
Oxazepam	180-2,000 ng/mL	[2,3]	25 ng/mL
Temazepam	200-1,100 ng/mL	[2]	50 ng/mL
Codeine	30-134 ng/mL	[1]	20 ng/mL
Morphine	20-440 ng/mL	[1]	20 ng/mL
Phencyclidine	7-240 ng/mL	[1,2]	1 ng/mL



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

Approved by: [i]

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. Dimairo, 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 8299, 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.