

# 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-11AV  
OFFENSE: HS 11550/OFFICER: ROMERO/ 217  
DRIVER LICENSE NUMBER: [REDACTED]

## 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

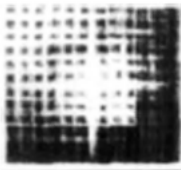
## Amphetamine Confirmation (GC/MS) Results

Approved by: SC

Amphetamine 49 ng/mL  
Result Amended from (Not detected or below reporting level [0]) (6/23/2015 13:24) to (49)

Methamphetamine 497 ng/mL  
Result Amended from (Not detected or below reporting level [0]) (6/23/2015 13:26) to (497)

Ephedrine	Not detected
Pseudoephedrine	Not detected
Phenylpropanolamine	Not detected
Phentermine	Not detected
MDMA, MDA, MDEA	Not detected



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## MKL ELISA Drug Screen Limits of Detection [1]

Approved by: [1]

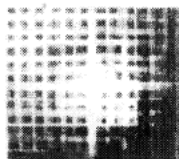
PANEL	THRESHOLD
Amphetamines	5 ng/mL
Methamphetamines	5 ng/mL
Barbiturates	5 ng/mL
Cocaine	10 ng/mL
Benzodiazepines	5 ng/mL
Opiates	5 ng/mL
PCP	5 ng/mL
THC	5 ng/mL

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 [1]

Approved by: [1]

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
Benzoylcegonine	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
Codaine	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. 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 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.