



Butethal	30
Cyclopentobarbital	60
Pentobarbital	150
Pentobarbital	30
<b>Benzodiazepines (BZO 30)</b>	
Oxazepam	30
Alprazolam	20
Bromazepam	40
Chlordiazepoxide	40
Clobazam	20
Clorazepate	75
Delorazepam	75
Desalkylflurazepam	75
Diazepam	9
Estazolam	9
Flunitrazepam	300
a-Hydroxyalprazolam	600
(±)-Lorazepam	600
Midazolam	75
Nitrazepam	40
Norchlordiazepoxide	600
Nordiazepam	75
Temazepam	20
Triazolam	75
Butethal	90
Cyclopentobarbital	180
Pentobarbital	450
Pentobarbital	90
<b>Buprenorphine (BUP 5)</b>	
Buprenorphine	5
Buprenorphine-3-D-Glucuronide	10
Norbuprenorphine	10
Norbuprenorphine-3-D-Glucuronide	10
<b>Cocaine (COC 20)</b>	
Cocaine	20
Benzoyllecgonine	20
Cocaehtylene	25
Ecgonine	1,500
Ecgonine methylester	12,500

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<b>Cocaine (COC 50)</b>	
Cocaine	50
Benzoyllecgonine	50
Cocaehtylene	65
Ecgonine	3,750
Ecgonine methylester	31,250
<b>Cotinine (COT 20)</b>	
(-) Cotinine	20
S(-)-Nicotine	2,000
<b>Cotinine (COT 50)</b>	
(-) Cotinine	50
S(-)-Nicotine	5,000
<b>Cannabinoids (THC 12)</b>	
11-nor- $\Delta$ 9 -THC-9-COOH	12
11-nor- $\Delta$ 8-THC-9-COOH	7
11-hydroxy- $\Delta$ 9 -THC	600
$\Delta$ 8-THC	1,800
$\Delta$ 9-THC	2,400
Cannabinol	24,000
Cannabidiol	24,000
<b>Cannabinoids (THC 40)</b>	
11-nor- $\Delta$ 9 -THC-9-COOH	40
11-nor- $\Delta$ 8-THC-9-COOH	30
11-hydroxy- $\Delta$ 9 -THC	2,000
$\Delta$ 8-THC	7,500
$\Delta$ 9-THC	10,000
Cannabinol	10,000
Cannabidiol	100,000
<b>Cannabinoids (THC 50)</b>	
11-nor- $\Delta$ 9 -THC-9-COOH	50
11-nor- $\Delta$ 8-THC-9-COOH	30
11-hydroxy- $\Delta$ 9 -THC	2,500
$\Delta$ 8-THC	7,500
$\Delta$ 9-THC	10,000
Cannabinol	10,000
Cannabidiol	100,000
<b>Fentanyl 20 (FTY 20)</b>	

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Norfentanyl	20
Fentanyl	200
<b>Methadone (MTD 30)</b>	
Methadone	30
Doxylamine	5,000
<b>Methamphetamine (mAMP/MET 50)</b>	
d-Methamphetamine	50
Fenfluramine	10,000
p-Hydroxymethamphetamine	400
Methoxyphenamine	25,000
3,4-Methylenedioxyamphetamine(MDMA)	500
l-Phenylephrine	4,000
Procaine	2,000
(1R,2S)-(-) Ephedrine	400
<b>Methylenedioxyamphetamine (MDMA 25)</b>	
3,4-Methylenedioxyamphetamine (MDMA)	25
3,4-Methylenedioxyamphetamine (MDA)	250
3,4-Methylenedioxyethylamphetamine (MDEA)	60
<b>Methylenedioxyamphetamine (MDMA 50)</b>	
3,4-Methylenedioxyamphetamine (MDMA)	50
3,4-Methylenedioxyamphetamine (MDA)	250
3,4-Methylenedioxyethylamphetamine (MDEA)	60
<b>Methylenedioxyamphetamine (MDMA 100)</b>	
3,4-Methylenedioxyamphetamine (MDMA)	100
3,4-Methylenedioxyamphetamine (MDA)	250
3,4-Methylenedioxyethylamphetamine (MDEA)	60
<b>Opiate (OPI 15)</b>	
Morphine	15
Codeine	15
Ethylmorphine	40
Heroin	15
Hydrocodone	90
Hydromorphone	40
Levorphanol	540
o-Monoacetylmorphine	40
Morphine 3- $\beta$ -D-glucuronide	15
Norcodeine	90

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Normorphone	400
Oxycodone	200
Oxymorphone	200
Procaine	1,125
Thebaine	750
<b>Opiate (OPI 40)</b>	
Morphine	40
Codeine	40
Ethylmorphine	100
Heroin	40
Hydrocodone	250
Hydromorphone	100
Levorphanol	1,500
o-Monoacetylmorphine	100
Morphine 3- $\beta$ -D-glucuronide	40
Norcodeine	250
Normorphone	1,000
Oxycodone	500
Oxymorphone	500
Procaine	3,000
Thebaine	2,000
<b>Opiate (OPI 50)</b>	
Morphine	50
Codeine	50
Ethylmorphine	125
Heroin	50
Hydrocodone	300
Hydromorphone	125
Levorphanol	1,800
o-Monoacetylmorphine	125
Morphine 3- $\beta$ -D-glucuronide	50
Norcodeine	300
Normorphone	1,250
Oxycodone	625
Oxymorphone	625
Procaine	3,750
Thebaine	2,500
<b>Morphine (MOP 15)</b>	
Morphine	15
Codeine	15

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Ethylmorphine	15
Heroin	15
Hydrocodone	250
Hydromorphone	250
Morphine 3- $\beta$ -D-glucuronide	50
o-Monoacetylmorphine	20
Oxycodone	1,250
Oxymorphone	500
Thebaine	1,500
<b>Oxycodone (OXY 20)</b>	
Oxycodone	20
Dihydrocodeine	4,000
Codeine	10,000
Hydromorphone	300,000
Morphine	11,000
Acetylmorphine	> 10,000
Buprenorphine	> 10,000
Ethylmorphine	> 10,000
<b>Phencyclidine (PCP 10)</b>	
Phencyclidine	10
4-Hydroxyphencyclidine	12,500
<b>Propoxyphene (PPX)</b>	
d-Propoxyphene	25
d-Norpropoxyphene	25
<b>6-Monoacetylmorphine (6-MAM 10)</b>	
6-Monoacetylmorphine	10
Codeine	10
Ethylmorphine	200
Hydrocodone	2,000
Hydromorphone	100
Levorphanol	50
Morphine 3- $\beta$ -D-glucuronide	30
Morphine	10
Norcodeine	200
Normorphone	2,000
Oxycodone	1,000
Oxymorphone	2,000
Procaine	500
Thebaine	200

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<b>6-Monoacetylmorphine (6-MAM 15)</b>	
6-Monoacetylmorphine	15
Codeine	15
Ethylmorphine	300
Hydrocodone	3,000
Hydromorphone	150
Levorphanol	75
Morphine 3- $\beta$ -D-glucuronide	45
Morphine	15
Norcodeine	300
Normorphone	3,000
Oxycodone	1,500
Oxymorphone	3,000
Procaine	750
Thebaine	300
<b>6-Monoacetylmorphine (6-MAM 25)</b>	
6-Monoacetylmorphine	25
Codeine	25
Ethylmorphine	500
Hydrocodone	5,000
Hydromorphone	250
Levorphanol	125
Morphine 3- $\beta$ -D-glucuronide	75
Morphine	25
Norcodeine	500
Normorphone	5,000
Oxycodone	2,500
Oxymorphone	5,000
Procaine	1,250
Thebaine	500

**(2) For the alcohol test**  
Alcohol test will react with methyl, ethyl, and allyl alcohols. It will not react with alcohols having 5 or more carbons, nor with glycine, glycerol, or serine. This property is a result of the specificity of the alcohol oxidase. The following substances have been evaluated and do not interfere with the alcohol test at the concentration indicated.

Compound	Concentration (mg/dL)
Ethylene Glycol	20
Acetone	70
1-Propanol	10
2-Propanol	35

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## Cross-Reactivity

### (1) For the drugs of abuse test

A study was conducted to determine the cross-reactivity of the test with the following compounds. The following compounds show no cross-reactivity when tested with the D-Pen™ Oral Fluid Drug Test at a concentration up to 100 µg/mL.

Aminopyrine	Lofexidine
Amoxicillin	Loperamide
Ampicillin	Maprotiline
Apomorphine	Meperidine
Aspartame	Meprobamate
Aspirin	Methadone (except MTD tests)
Atropine	Methoxyphenamine
Benadryl	Morphine-3- $\beta$ -D-glucuronide (except MOP, OPI tests)
Benzilic acid	N-Acetylprocainamide
Benzoic acid	Nalidixic acid
Benzoyllecgonine (except COC test)	Naloxone
Bilirubin	Naltrexone
Cannabidiol (except THC test)	Naproxen
Captopril	Niacinamide
Chloralhydrate	Nifedipine
Chloramphenicol	Nitroglycerin
Chlorothiazide	Norcodeine (except MOP, OPI tests)
Chlorpromazine	Norethindrone
Chloroquine	Noscapine
Cholesterol	O-Hydroxyhippuric acid
Clarithromycin	Omeprazole
Clonidine	Oxalic acid
Codeine (except MOP, OPI, OXY tests)	Oxazepam (except BZO test)
(-) Cotinine (except COT test)	Oxolinic acid
Cortisone	Oxymetazoline
Creatinine	Papaverine
Deoxycorticosterone	Penicillin V Potassium
Dextromethorphan	Penicillin-G
Diazepam (except BZO test)	Pentobarbital (except BAR test)
Diclofenac	Perphenazine
Diflunisal	Phencyclidine (except PCP tests)
Digoxin	Phenelzine
Diphenhydramine	Phenytol
D,L-Tryptophan	Pholcodine
D,L-Isoproterenol	Prednisone
D,L-Octopamine	Procaine (except OPI, MOP tests)
DL-Propranolol	Propranolol HCl

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DL-Tyrosine	Quinine
D-Norpropoxyphene (except PPX test)	Ranitidine
D-Propoxyphene (except PPX test)	Ranitidine HCl
D-Pseudoephedrine	Salicylic acid
Dopamine HCl	Secobarbital (except BAR test)
Doxepine	Serotonin (5-Hydroxytyramine)
Doxylamine (except MTD test)	Sulfamethazine
Ecgonine methyl ester	Sulindac
$\beta$ -Estradiol	Tetrahydrocortisone- $\beta$ (-Dglucuronide)
Erythromycin	Tetrahydrocortisone, 3-acetate
Estrogen	Tetrahydrozoline
Fenoprofen	Thiamine
Furosemide	Thioridazine
Gentisic acid	Triamterene
Hydralazine	Trifluoperazine
Hydrochlorothiazide	Trimethoprim
Hydrocodone (except MOP, OPI tests)	Tyramine
3-Hydroxytyramine	Uric acid
Hydrocortisone	Venlafaxine HCl
Ibuprofen	Verapamil
Isosuprine	Sertraline Hydrochloride
Ketamine	Zomepirac
Ketoprofen	

### (2) For the alcohol test

The following substances may interfere with the alcohol test.

Strong oxidizers	Ascorbic acid
Tannic acid	Polyphenolic compopunds
Mercaptans	Uric acid
Bilirubin	Oxalic acid

These compounds are not normally present in sufficient amount in saliva to interfere with the test. However, the precautions step must be taken so that these materials are not introduced into the mouth during the 10 minutes period proceeding to the test.

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## BIBLIOGRAPHY OF SUGGESTED READING

- Moolchan, E., et al, "Saliva and Plasma Testing for Drugs of Abuse: Comparison of the Disposition and Pharmacological Effects of Cocaine", Addiction Research Center, IRP, NIDA, NIH, Baltimore, MD. As presented at the SOFT-TIAFT meeting October 1998.
- Kim, I, et al, "Plasma and oral fluid pharmacokinetics and pharmacodynamics after oral codeine administration", Clin Chem, 2002 Sept.; 48 (9), pp 1486-96.
- Schramm, W, et al, "Drugs of Abuse in Saliva: A Review," J Anal Tox, 1992 Jan-Feb; 16 (1), pp 1-9.
- McCarron, MM, et al, "Detection of Phencyclidine Usage by Radioimmunoassay of Saliva," J Anal Tox. 1984 Sep-Oct.; 8 (5), pp 197-201

## ASSISTANCE

Call toll-free **(888) 695-5248** (Monday – Friday 9:00 am – 5:00 pm, CST) or email to [support@dochekusa.com](mailto:support@dochekusa.com).

## INDEX OF SYMBOL

	Consult instructions for use		Keep dry
	Store at 35°F - 86°F (2°C - 30°C)		Keep away from sunlight
	Use-by date		Catalogue number
	Batch code		Do not reuse
	Do not use if package is damaged		

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