



Emit® Drugs of Abuse Urine Assays Cross-Reactivity List

Answers for life.

SIEMENS

CONTENTS

EMIT [®] II PLUS – AMPHETAMINES.....	4
EMIT [®] II PLUS – BARBITURATE	8
EMIT [®] II PLUS – BENZODIAZEPINE.....	12
EMIT [®] II PLUS – CANNABINOID	16
EMIT [®] II PLUS – COCAINE METABOLITE	20
EMIT [®] II PLUS – ECSTASY	24
EMIT [®] II PLUS – LSD.....	28
EMIT [®] II PLUS – METHADONE	32
EMIT [®] II PLUS – METHAQUALONE.....	36
EMIT [®] II PLUS – OPIATE.....	40
EMIT [®] II PLUS – PHENYLCYCLIDINE	44
EMIT [®] II PLUS – PROPOXYPHENE	48
EMIT [®] II PLUS – ABSORBANCE FLAGS.....	52

EMIT[®] II PLUS – AMPHETAMINES

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, Phenmetrazine is listed at 2300 for the Amphetamines assay at 300 ng/mL cutoff. This means that it takes a concentration of 2300 ng/mL Phenmetrazine in urine to produce an instrument response equal to the 300 ng/mL d-methamphetamine calibrator. This concentration of drug in urine may be achieved in patients taking Phenmetrazine.

Negative - Structurally Related Concentration in µg/mL of listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is NOT clinically significant, and is not generally encountered in individuals taking the listed drug.

For example, Bupropion is listed as 250 for the Amphetamines assay at 300 ng/mL cutoff. This means that it takes 250 µg/mL (250,000 ng/mL) of Bupropion to produce an instrument response equal to the 300 ng/mL d-Amphetamine calibrator. This concentration of drug in urine is higher than normally seen in patient taking this drug.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – AMPHETAMINES

The Amphetamines Assay has three cutoffs: 300 ng/mL, 500 ng/mL, and 1000 ng/mL d-Methamphetamine.

Positive– The drugs listed are in ng/mL at which they will cross-react equivalent to the d-Methamphetamine cutoff.

	300 Cutoff	500 Cutoff	1000 Cutoff
d,l-Amphetamine	625	1050	2150
l-Amphetamine	3450	3750	11500
Benzphetamine *	400	700	1000
d,l-Methamphetamine	450	700	2100
l-Methamphetamine	725	1325	3650
MDA (Methylenedioxyamphetamine)	1100	1700	(see below)
MDEA (Methylenedioxyethamphetamine)	4400	6800	(see below)
MDMA (Methylenedioxymethamphetamine)	5200	9150	(see below)
Phenmetrazine	2300	3500	13000
Selegiline	#	#	#

* Benzphetamine metabolizes to amphetamine and methamphetamine.

Selegiline metabolizes to l-amphetamine and l-methamphetamine. Patients taking Selegiline may test positive by amphetamine assays.

Negative — Structurally Related – The drugs listed are in µg/mL at which they will cross-react equivalent to the d-Methamphetamine cutoff.

	300 Cutoff	500 Cutoff	1000 Cutoff
Bupropion	250	500	2220
Cathinone	>100	>100	>100
4-Chloramphetamine	2.6	4.5	12.2
Chloroquine	2100	2200	4500
l-Ephedrine	400	800	3500
Fenfluramine	25	40	150
MDA (Methylenedioxyamphetamine)	(see above)	(see above)	6.5
MDEA (Methylenedioxyethamphetamine)	(see above)	(see above)	27.2
MDMA (Methylenedioxymethamphetamine)	(see above)	(see above)	34.3
Mephentermine	8	15	60
Methcathinone	>100	>100	>100
Methoxyphenamine	90	160	360
Phentermine	5.8	9	25
Phenylpropanolamine	700	1000	2000
PMA (p-Methoxyamphetamine)	4	7	34
PMMA (p-Methoxymethamphetamine)	8	14	81
Propranolol	100	125	500
d,l-Pseudoephedrine	1400	2600	8300
nor-Pseudoephedrine	40	70	170
Quinacrine	2500	3800	16500
Tranlycypromine	30	60	200
Tyramine	150	200	600

EMIT[®] II PLUS – AMPHETAMINES

Negative

The compounds below were negative for the Amphetamines 300, 500, and 1000 cutoffs at the concentrations shown except where noted. Concentrations listed are in µg/mL.

Acetaminophen	1000	Diphenhydramine	1000
Acetylsalicylic Acid	1000	Dobutamine	1000
Albuterol	1000	Doxepin	1000
Alendronate	1000	Doxycycline	1000
Alprazolam	1000	Doxylamine	1000
5-Aminosalicylic Acid	1000	EDDP (2-Ethylidene-1,5-dimethyl- 3,3-diphenylpyrrolidine)	1000
Amitriptyline	1000	Enalapril Maleate	1000
Amlodipine	750	Ephedrine	125
Amoxicillin	1000	l-Epinephrine	1000
Atenolol	1000	Escitalopram	1000
Atomoxetine	1000	Esomeprazole	1000
Atorvastatin	1000	Eszopiclone	1000
Azithromycin	1000	Ezetimibe	1000
AZT (Zidovudine)	2000	Fenoprofen	150
Benazepril	1000	Fentanyl	75
Benzoylcegonine	1000	Fexofenadine	1000
1-Benzylpiperazine @ 300	300	Fluoxetine	500
1-Benzylpiperazine @ 500	460	Fluticasone Propionate	1000
1-Benzylpiperazine @ 1000	460	Furosemide	1000
Buprenorphine	1000	Gabapentin	1000
Caffeine	1000	Glutethimide	500
Carbamazepine	250	Glyburide	1000
Carisoprodol	1000	Griseofulvin	1000
Celecoxib	1000	Haloperidol @ 300	500
Cephalexin	1000	Haloperidol @ 500	700
Cetirizine	1000	Haloperidol @1000	1000
Chlorpheniramine	1000	Hydrochlorothiazide	1000
Chlorpromazine	200	Hydrocodone	1000
Cimetidine	1000	Hydromorphone	1000
Ciprofloxacin	1000	Ibuprofen	1000
Citalopram	1000	Imipramine	750
Clomipramine	2.5	d,l-Isoproterenol	1000
Clonazepam	1000	Isoxsuprine @ 300	300
Clonidine	1000	Isoxsuprine @ 500	500
Clopidogrel Hydrogen Sulfate	1000	Isoxsuprine @ 1000	500
Clotrimazole	1000	Ketamine	100
Codeine	500	Ketoprofen	1000
l-Cotinine	100	Ketorolac Tromethamine	1000
Cyclobenzaprine	1000	LAAM (l-α-Acetylmethadol)	25
Desipramine @300	300	dinor LAAM (α-Acetyl-N, N-dinormethadol)	25
Desipramine @ 500	500	nor LAAM (Noracetylmethadol)	25
Desipramine @ 1000	800	Labetalol	750
Dextromethorphan	1000	Lamotrigine	1000
Dextrorphan	280	Lansoprazole	1000
Diazepam	1000	Levofloxacin	1000
Diclofenac	1000	Lidocaine	1000
Diethylpropion	1000		
Diltiazem	1000		

EMIT[®] II PLUS – AMPHETAMINES

Negative (continued)

Lisinopril	1000	Phenylephrine	1000
LSD (Lysergic acid diethylamide)	2.5	Phenytoin (DPH)	1000
MEGX (Monoethylglycinexylidide)	1000	Phthalic Acid	1000
Meloxicam	1000	Pioglitazone	1000
Meperidine	1000	Pravastatin	1000
Meprobamate	1000	Prednisone	1000
Mescaline @ 300	1000	Procainamide	1000
Mescaline @ 500	1500	Promethazine	1000
Mescaline @ 1000	1500	Propofol	1000
Metaproterenol	500	Propoxyphene	1000
Metformin	1000	Propylhexedrine @ 300	20
Methadone	1000	Propylhexedrine @ 500	30
Methaqualone	1500	Propylhexedrine @ 1000	50
d,l-Methyldopa	1000	Quetiapine Fumerate	1000
l-Methyldopa	1000	Quinapril	1000
Methylphenidate	1000	Rabeprazole	1000
Metoprolol Tartrate	1000	Ramipril	1000
Metronidazole	1000	Ranitidine	1000
Morphine	1000	Risedronate	1000
Nalmefene	20	Risperidone	1000
Naloxone	500	Rofecoxib	1000
NAPA (N-Acetylprocainamide)	400	Scopolamine	500
Naproxen	1000	Secobarbital	1000
Nefazodone	1000	Sertraline	1000
Nicotinic Acid	500	Sildenafil	1000
Nortryptiline	750	Simvastatin	1000
Nylidrin	750	11-nor- Δ^9 -THC-9-COOH	100
Ofloxacin	100	Thioridazine	100
Omeprazole	1000	Thyroxine	1000
Oxazepam	300	Tolmetin Sodium	2000
Oxycodone	1000	Topiramate	1000
Oxymorphone	1000	Tramadol	1000
PABA (p-Aminobenzoic Acid)	1000	Tranlycypromine	16
Paroxetine	1000	Trazodone	1000
PCA (1-Phenylcyclohexylamine)	50	Trifluoperazine	1000
PCC (1-Piperidinocyclohexane Carbonitrile)	50	Trihexylphenidyl	1000
PCP (Phencyclidine)	1000	Trimethobenzamide	500
Phenelzine @ 300	50	Trimethoprim	1000
Phenelzine @ 500	100	3-OH-Tyramine	300
Phenelzine @ 1000	100	Venlafaxine	1000
Phenethylamine @ 300	15	Verapamil	1000
Phenethylamine @ 500	20	Warfarin	1000
Phenethylamine @ 1000	20	Zolpidem	100

EMIT[®] II PLUS – BARBITURATE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, Butalbital is listed as 304 for the Barbiturate assay at 200 ng/mL cutoff. This means that it takes a concentration of 304 ng/mL Butalbital in urine to produce an instrument response equal to the 200 ng/mL Secobarbital calibrator. This concentration of drug in urine may be achieved in patients taking Butalbital.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – BARBITURATE

The Barbiturate Assay has two cutoffs: 200 ng/mL and 300 ng/mL Secobarbital.

Positive– The drugs listed are in ng/mL at which they will cross-react equivalent to the Secobarbital cutoff.

	200 Cutoff	300 Cutoff
Allobarbitol	345	744
Alphenal	284	978
Amobarbital	348	923
Aprobarbital	275	478
Barbital	1278	4148
5-Ethyl-5-(4-hydroxyphenyl) barbituric acid	927	4719
Butabarbital	274	523
Butalbital	304	475
Butobarbital	349	875
Cyclopentobarbital	304	527
Pentobarbital	252	447
Phenobarbital	509–971	2386–4624
Talbutal	194	262
Thiopental	16400	80400

EMIT[®] II PLUS – BARBITURATE

Negative

The compounds below were negative for the Barbiturate 200 and 300 cutoffs at the concentrations shown. Concentrations listed are in µg/mL.

Acetaminophen	1000	Ezetimibe	1000
Acetylsalicylic Acid	1000	Fentanyl	1000
Albuterol	1000	Fexofenadine	1000
Alendronate	1000	Fluoxetine	1000
Alprazolam	1000	Fluticasone Propionate	1000
5-Aminosalicylic Acid	1000	Furosemide	1000
Amitriptyline	1000	Gabapentin	1000
Amlodipine	1000	Glutethimide	300
d-Amphetamine	1000	Glyburide	1000
Amoxicillin	1000	Griseofulvin	1000
Atomoxetine	1000	Hydrochlorothiazide	1000
Atorvastatin	1000	Hydrocodone	1000
Azathioprine	1000	Hydromorphone	1000
Azithromycin	1000	Ibuprofen	1000
AZT (Zidovudine)	2000	d,l-Isoproterenol	1000
Benazepril	1000	Isoxsuprine	1000
Benzoyllecgonine	1000	Ketamine	100
Buprenorphine	1000	Ketoprofen	1000
Bupropion	1000	Ketorolac Tromethamine	1000
Caffeine	1000	LAMM (l- α -Acetylmethadol)	25
Carbamazepine	1000	dinor LAAM (α -Acetyl-N, N-dinormethadol)	25
Carbamazepine 10,11-Epoxyde	1000	Lamotrigine	1000
Celecoxib	1000	Lansoprazole	1000
Cephalexin	1000	Levofloxacin	1000
Cetirizine	1000	Lidocaine	1000
Chlorpheniramine	1000	Lisinopril	1000
Chlorpromazine	1000	Lorazepam	250
Cimetidine	1000	Lormetazepam	1
Ciprofloxacin	1000	LSD (Lysergic acid diethylamide)	0.01
Citalopram	1000	Meloxicam	1000
Clomipramine	2.5	Meperidine	1000
Clonazepam	1000	Meprobamate	1000
Clonidine	1000	Metaproterenol	1000
Clopidogrel Hydrogen Sulfate	1000	Metformin	1000
Clotrimazole	1000	Methadone	100
Codeine	500	d-Methamphetamine	35
Cotinine	100	Methaqualone	1500
Cyclobenzaprine	1000	MDA (Methylenedioxyamphetamine)	5
Desipramine	800	MDMA (Methylenedioxy- methamphetamine)	200
Dextromethorphan	1000	Metoprolol Tartrate	1000
Diazepam	1000	Metronidazole	1000
Diclofenac	1000	Morphine	1000
Diltiazem	1000	Myoglobin	287
Diphenhydramine	1000	NAPA (N-Acetylprocainamide)	400
Doxepin	1000	Naproxen	1000
Doxycycline	1000	Nefazodone	1000
Doxylamine	1000	Nortriptyline	1000
EDDP (2-Ethylidene-1,5-dimethyl- 3, 3-diphenylpyrrolidine)	1000	Nylidrin	1000
Enalapril Maleate	1000		
Ephedrine	1000		
Escitalopram	1000		
Escomeprazole	1000		
Eszopiclone	1000		

EMIT[®] II PLUS – BARBITURATE

Negative (continued)

Omeprazole	1000	Scopolamine	500
Oxazepam	300	Sertraline	1000
Oxycodone	1000	Sibutramine HCl	1000
Oxymorphone	1000	Sildenafil	1000
Paroxetine	1000	Simvastatin	1000
PCP (Phencyclidine)	1000	Terbutaline	1000
Phenytoin (DPH)	1000	11-nor- Δ^9 -THC-9-COOH	100
Pioglitazone	1000	Thioridazine	100
Pravastatin	1000	Thyroxine	1000
Prednisone	1000	Tolmetin Sodium	1000
Promethazine	1000	Topiramate	1000
Propofol	1000	Tramadol	1000
Propoxyphene	1000	Tranlycypromine	1000
Propranolol	1000	Trazadone	1000
Pseudoephedrine	1000	Trifluoperazine	1000
Quetiapine Fumerate	1000	Trihexylphenidyl	1000
Quinapril	1000	Trimethoprim	1000
Rabeprazole	1000	Tyramine	100
Ramipril	1000	Valproic Acid	1000
Ranitidine	1000	Venlafaxine	1000
Risedronate	1000	Verapamil	1000
Risperidone	1000	Warfarin	1000
Rofecoxib	1000	Zolpidem	100

EMIT[®] II PLUS – BENZODIAZEPINE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, Alprazolam is listed as 65 for the Benzodiazepine assay at 200 ng/mL cutoff. This means that it takes a concentration of 65 ng/mL Alprazolam in urine to produce an instrument response equal to the 200 ng/mL Lormetazepam calibrator. This concentration of drug in urine may be achieved in patients taking Alprazolam.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – BENZODIAZEPINE

The Benzodiazepine Assay has two cutoffs: 200 ng/mL and 300 ng/mL Lormetazepam.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the Lormetazepam cutoff.

	200 Cutoff	300 Cutoff
Alprazolam	65	79
7-Aminoclonazepam	5700	11000
7-Aminoflunitrazepam	590	1400
7-Aminonitrazepam	365	1000
Bromazepam	630	1400
Chlordiazepoxide	3300	7800
Clobazam	260	350
Clonazepam	260	500
Clorazepate	#	#
Clotiazepam	250	420
Demoxepam	850	2200
N-Desalkylflurazepam	130	160
N-Desmethyldiazepam	110	140
Diazepam	44	120
Estazolam	55	72
Flunitrazepam	140	190
Flurazepam	190	250
Halazepam	110	160
α-Hydroxyalprazolam	100	150
α-Hydroxyalprazolam glucuronide	110	120
1-N-Hydroxyethylflurazepam	150	150
α-Hydroxytriazolam	130	190
Ketazolam	180	290
Lorazepam	600	890
Lorazepam glucuronide	>10000	>10000
Medazepam	150	210
Midazolam	130	160
Nitrazepam	140	220
Norchlordiazepoxide	2600	4900
Oxazepam	250	350
Oxazepam glucuronide	>10000	>10000
Prazepam	90	130
Sertraline	+	+
Temazepam	140	210
Temazepam glucuronide	6900	11000
Tetraazepam	41	54
Triazolam	130	180

Clorazepate degrades rapidly in stomach acid to nordiazepam. Nordiazepam hydroxylates to oxazepam.

+ Therapeutic doses of sertraline may produce a positive result with this assay

EMIT[®] II PLUS – BENZODIAZEPINE

Negative

The compounds below were negative for the Benzodiazepine 200 and 300 cutoffs at the concentrations shown except where noted. Concentrations listed are in µg/mL.

Acetaminophen	1000	Ezetimibe	1000
Acetylsalicylic Acid	1000	Fentanyl	1000
Albuterol	1000	Fexofenadine	1000
Alendronate	1000	Fluoxetine	1000
5-Aminosalicylic Acid	1000	Fluticasone Propionate	1000
Amitriptyline	1000	Fluvoxamine	1000
Amlodipine	1000	Furosemide	1000
Amoxicillin	1000	Gabapentin	1000
d-Amphetamine	1000	Glutethimide	500
Atomoxetine	1000	Glyburide	1000
Atorvastatin	1000	Griseofulvin	1000
Azathioprine	1000	Hydrochlorothiazide	1000
Azithromycin	1000	Hydrocodone	1000
AZT (Zidovudine)	2000	Hydromorphone	900
Benazepril	1000	Ibuprofen	1000
Benzoyllecgonine	1000	d,l-Isoproterenol	1000
Buprenorphine	1000	Isoxsuprine	1000
Bupropion	1000	Ketamine	100
Caffeine	1000	Ketoprofen	1000
Celecoxib	1000	Ketorolac Tromethamine	1000
Cephalexin	1000	LAMM (l-α-Acetylmethadol)	25
Cetirizine	1000	dinor LAAM (α-Acetyl-N, N-dinormethadol)	25
Chlorpheniramine	1000	Lamotrigine	1000
Chlorpromazine	1000	Lansoprazole	1000
Cimetidine	1000	Levofloxacin	1000
Ciprofloxacin	1000	Lidocaine	1000
Citalopram	1000	Lisinopril	1000
Clomipramine	2.5	Loratadine	1000
Clonidine	1000	LSD Lysergic acid diethylamide	0.01
Clopidogrel Hydrogen Sulfate	1000	MDA (Methylenedioxyamphetamine)	5
Clotrimazole	1000	MDMA (Methylenedioxy- methamphetamine)	200
Clozapine	50	Meloxicam	1000
Clozapine N-Oxide	50	Meperidine	1000
Codeine	500	Meprobamate	1000
Cotinine	100	Metaproterenol	1000
Cyclobenzaprine	1000	Metformin	1000
Desipramine	800	Methadone	100
N-Desmethylsertraline	500	d-Methamphetamine	35
Dextromethorphan	1000	Methaqualone	1500
Diclofenac	1000	Metoprolol Tartrate	1000
Diltiazem	1000	Metronidazole	1000
Diphenhydramine	1000	Morphine	1000
Doxepin	1000	Myoglobin	287
Doxycycline	1000	Nabumetone	1000
Doxylamine	1000	NAPA (N-Acetylprocainamide)	400
EDDP (2-Ethylidene-1,5-dimethyl- 3, 3-diphenylpyrrolidine)	1000	Naproxen	1000
Enalapril Maleate	1000	Nefazodone	1000
Ephedrine	1000		
Escitalopram	900	Nortriptyline	1000
Esomeprazole	1000	Nylidrin	1000
Eszopiclone	1000		

EMIT[®] II PLUS – BENZODIAZEPINE

Negative (continued)

Olanzapine @ 300	1000	Rofecoxib	1000
Omeprazole	1000	Scopolamine	500
Oxycodone	900	Secobarbital	1000
Oxymorphone	1000	Sibutramine HCL	1000
Paroxetine	1000	Sildenafil	1000
PCP (Phencyclidine)	1000	Simvastatin	1000
Phenytoin (DPH)	1000	11-nor- Δ^9 -THC-9-COOH	100
Pioglitazone	1000	Thioridazine	100
Pravastatin	1000	Thyroxine	1000
Prednisone	1000	Tolmetin Sodium	1000
Promethazine	1000	Topiramate	1000
Propofol	1000	Tramadol	1000
Propoxyphene	1000	Tranlycypromine	1000
Propranolol	1000	Trazadone	1000
Pseudoephedrine	1000	Trifluoperazine	1000
Quetiapine Fumerate	500	Trihexylphenidyl	1000
Quinapril	1000	Trimethoprim	1000
Rabeprazole	1000	Tyramine	100
Raloxifene	1000	Valerian Root	10000
Ramipril	1000	Venlafaxine	1000
Ranitidine	1000	Verapamil	1000
Risedronate	1000	Warfarin	1000
Risperidone	1000	Zolpidem	100
Rizatriptan Benzate	1000	Zopiclone	1000

EMIT[®] II PLUS – CANNABINOID

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, 11-Hydroxy- Δ^8 -THC is listed as 67 for the Cannabinoid assay at 50 ng/mL cutoff. This means that it takes a concentration of 67 ng/mL 11-Hydroxy- Δ^8 -THC in urine to produce an instrument response equal to the 50 ng/mL 11-nor- Δ^9 -THC-9-COOH calibrator. This concentration of drug in urine may be achieved in patients taking THC.

Negative Concentration of drug tested in $\mu\text{g/mL}$ that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

The Cannabinoid Assay has three cutoffs: 20 ng/mL, 50 ng/mL and 100 ng/mL 11-nor- Δ^9 -THC-9-COOH.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the 11-nor- Δ^9 -THC-9-COOH cutoff.

	20 Cutoff	50 Cutoff	100 Cutoff
9-Carboxy-11-nor- Δ^9 -THC-glucuronide	79	95	328
8- β -11-Dihydroxy- Δ^9 -THC	24	58	109
11-Hydroxy- Δ^8 -THC	43	67	129
11-Hydroxy- Δ^9 -THC	42	77	124
8- β -Hydroxy- Δ^9 -THC	26	68	146

EMIT[®] II PLUS – CANNABINOID

Negative

The compounds below were negative for the Cannabinoid 20, 50, and 100 cutoffs at the concentrations shown except where noted. Concentrations listed are in µg/mL.

Acetaminophen	1000	Escitalopram	1000
Acetylsalicylic Acid	1000	Esomeprazole	1000
Albuterol	1000	Eszopiclone	1000
Alendronate	1000	Ezetimibe	1000
Alprazolam	1000	Fentanyl	1000
5-Aminosalicylic Acid	1000	Fexofenadine	1000
Amitriptyline	1000	Fluoxetine	1000
Amlodipine	1000	Fluticasone Propionate	1000
Amoxicillin	1000	Furosemide	1000
d-Amphetamine	1000	Gabapentin	1000
Atomoxetine	1000	Glutethimide	500
Atorvastatin	1000	Glyburide	1000
Azathioprine @ 50	1000	Griseofulvin	1000
Azathioprine @ 100	1000	Hydrochlorothiazide	1000
Azithromycin	1000	Hydrocodone	1000
AZT (Zidovudine)	2000	Hydromorphone	1000
Benazepril	1000	Ibuprofen	1000
Benzoyllecgonine	1000	d,l-Isoproterenol	1000
Buprenorphine	1000	Isoxsuprine	1000
Bupropion	1000	Ketamine	100
Caffeine	1000	Ketoprofen	1000
Celecoxib	1000	Ketorolac Tromethamine	1000
Cephalexin	1000	LAMM (l-α-Acetylmethadol)	25
Cetirizine	1000	dinor LAAM (α-Acetyl-N, N-dinormethadol)	25
Chlorpheniramine	1000	Lamotrigine	1000
Chlorpromazine	1000	Lansoprazole	1000
Cimetidine	1000	Levofloxacin	1000
Ciprofloxacin	1000	Lidocaine	1000
Citalopram	1000	Lisinopril	1000
Clomipramine	2.5	Lormetazepam	1
Clonazepam	1000	LSD (Lysergic acid diethylamide)	0.01
Clonidine	1000	MDA (Methylenedioxyamphetamine)	5
Clopidogrel Hydrogen Sulfate	1000	MDMA (Methylenedioxy- methamphetamine)	200
Clotrimazole	1000	Meloxicam	1000
Codeine	500	Meperidine	1000
Cotinine	100	Meprobamate	1000
Cyclobenzaprine	1000	Metaproterenol	1000
Desipramine	800	Metformin	1000
Dextromethorphan	1000	Methadone	100
Diazepam	1000	d-Methamphetamine	35
Diclofenac	1000	Methaqualone	1500
Diltiazem	1000	Metoprolol Tartrate	1000
Diphenhydramine	1000	Metronidazole	1000
Doxepin	1000	Morphine	1000
Doxycycline	1000	Myoglobin @ 50	287
Doxylamine	1000	Myoglobin @ 100	287
EDDP (2-Ethylidene-1,5-dimethyl- 3, 3-diphenylpyrrolidine)	1000	NAPA (N-Acetylprocainamide)	400
Efavirenz	1000	Naproxen	1000
Enalapril Maleate	1000	Nefazodone	1000
Ephedrine	1000		

EMIT[®] II PLUS – CANNABINOID

Negative (continued)

Nortriptyline	1000	Ranitidine	1000
Nylidrin	1000	Risedronate	1000
Omeprazole	1000	Risperidone	1000
Oxazepam	300	Rofecoxib	1000
Oxycodone	1000	Scopolamine	500
Oxymorphone	1000	Secobarbital	1000
Pantoprazole	1000	Sertraline	1000
Paroxetine	1000	Sibutramine HCL @ 100	1000
PCP (Phencyclidine)	1000	Sildenafil	1000
Phenytoin (DPH)	1000	Simvastatin	1000
Pioglitazone	1000	Thioridazine	100
Potassium Nitrite @ 50	5000	Thyroxine	1000
Potassium Nitrite @ 100	5000	Tolmetin Sodium	1000
Pravastatin	1000	Topiramate	1000
Prednisone	1000	Tramadol	1000
Promethazine	1000	Tranlycypromine	1000
Propofol	1000	Trazadone	1000
Propoxyphene	1000	Trifluoperazine	1000
Propranolol	1000	Trihexylphenidyl	1000
Pseudoephedrine	1000	Trimethoprim	1000
4-Pyridoxic Acid @ 100	1000	Tyramine	100
Quetiapine Fumerate	1000	Venlafaxine	1000
Quinapril	1000	Verapamil	1000
Rabeprazole	1000	Warfarin	1000
Ramipril	1000	Zolpidem	100

EMIT[®] II PLUS – COCAINE METABOLITE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, Cocaine is listed as 40–119 for the Cocaine Metabolite assay at 300 ng/mL cutoff. This means that it takes a concentration of 40–119 ng/mL Cocaine in urine to produce an instrument response equal to the 300 ng/mL benzoylecgonine calibrator. This concentration of drug in urine may be achieved in patients taking Cocaine.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – COCAINE METABOLITE

The Cocaine Metabolite Assay has two cutoffs: 150 ng/mL and 300 ng/mL benzoylecgonine.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the benzoylecgonine cutoff.

	150 Cutoff	300 Cutoff
Cocaine	18–53	40–119
Ecgonine	2–6	7–20

EMIT[®] II PLUS – COCAINE METABOLITE

Negative

The compounds below were negative for the Cocaine Metabolite 150 and 300 cutoffs at the concentrations shown except where noted. Concentrations listed are in µg/mL.

Acetaminophen	1000	Escitalopram	1000
Acetylsalicylic Acid	1000	Escomeprazole	1000
Albuterol	1000	Eszopiclone	1000
Alendronate	1000	Ezetimibe	1000
Alprazolam	1000	Fentanyl	1000
5-Aminosalicylic Acid	1000	Fexofenadine	1000
Amitriptyline	1000	Fluoxetine	1000
Amlodipine	1000	Fluticasone Propionate	1000
Amoxicillin	1000	Furosemide	1000
d-Amphetamine	100	Gabapentin	1000
Atomoxetine	1000	Glutethimide	500
Atorvastatin	1000	Glyburide	1000
Azathioprine	1000	Griseofulvin	1000
Azithromycin	1000	Hydrochlorothiazide	1000
AZT (Zidovudine)	2000	Hydrocodone	1000
Benazepril	1000	Hydromorphone	1000
Benzotropine	1000	Ibuprofen	1000
Bupivacaine	1000	d,l-Isoproterenol	1000
Buprenorphine	1000	Isoxsuprine	1000
Bupropion	1000	Ketamine	100
Caffeine	1000	Ketoprofen	1000
Celecoxib	1000	Ketorolac Tromethamine	1000
Cephalexin	1000	LAAM (l-α-Acetylmethadol)	25
Cetirizine	1000	dinor LAAM (α-Acetyl-N, N-dinormethadol)	25
Chlorpheniramine	1000	Lamotrigine	1000
Chlorpromazine	1000	Lansoprazole	1000
Cimetidine	1000	Levofloxacin	1000
Ciprofloxacin	1000	Lidocaine	1000
Citalopram	1000	Lisinopril	1000
Clomipramine	2.5	Lormetazepam	1
Clonazepam	1000	LSD (Lysergic acid diethylamide)	0.01
Clonidine	1000	MDA (Methylenedioxyamphetamine)	5
Clopidogrel Hydrogen Sulfate	1000	MDMA (Methylenedioxy- methamphetamine)	200
Clotrimazole	1000	Meloxicam	1000
Codeine	500	Meperidine	1000
Cotinine	100	Meprobamate	1000
Cyclobenzaprine	1000	Metaproterenol	1000
Desipramine	800	Metformin	1000
Dextromethorphan	1000	Methadone	1000
Diazepam	1000	d-Methamphetamine	35
Diclofenac	1000	Methaqualone	1500
Diltiazem	1000	Metoclopramide	1000
Diphenhydramine	1000	Metoprolol Tartrate	1000
Doxepin	1000	Metronidazole	1000
Doxycycline	1000	Morphine	1000
Doxylamine	1000	Myoglobin	287
EDDP (2-Ethylidene-1,5-dimethyl- 3, 3-diphenylpyrrolidine)	1000	NAPA (N-Acetylprocainamide)	400
Enalapril Maleate	1000	Naproxen	1000
Ephedrine	1000		

EMIT[®] II PLUS – COCAINE METABOLITE

Negative (continued)

Nefazodone	1000	Rofecoxib	1000
Nortriptyline	1000	Scopolamine	500
Nylidrin	1000	Secobarbital	1000
Omeprazole	1000	Sertraline	1000
Oxazepam	300	Sibutramine HCl	1000
Oxycodone	1000	Sildenafil	1000
Oxymorphone	1000	Simvastatin	1000
Paroxetine	1000	Tetracaine	1000
PCP (Phencyclidine)	1000	11-nor- Δ^9 -THC-9-COOH	100
Phenytoin (DPH)	1000	Thioridazine	100
Pioglitazone	1000	Thyroxine	1000
Pravastatin	1000	Tolmetin Sodium	1000
Prednisone	1000	Topiramate	1000
Promethazine	1000	Tramadol	1000
Propofol	1000	Tranylcypromine	1000
Propoxyphene	1000	Trazadone	1000
Propranolol	1000	Trifluoperazine	1000
Pseudoephedrine	1000	Trihexylphenidyl	1000
Quetiapine Fumerate	1000	Trimethoprim	1000
Quinapril	1000	Tyramine	100
Rabeprazole	1000	Venlafaxine	1000
Ramipril	1000	Verapamil	1000
Ranitidine	1000	Warfarin	1000
Risedronate	1000	Zolpidem	100
Risperidone	1000		

EMIT[®] II PLUS – ECSTASY

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, BDB is listed as 220 for the Ecstasy assay at 300 ng/mL cutoff. This means that it takes a concentration of 220 ng/mL BDB in urine to produce an instrument response equal to the 300 ng/mL MDMA calibrator. This concentration of drug in urine may be achieved in patients taking BDB.

Negative - Structurally Related Concentration in µg/mL of listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is NOT clinically significant, and is not generally encountered in individuals taking the listed drug.

For example, Bupropion is listed as 2000 for the Ecstasy assay at 300 ng/mL cutoff. This means that it takes 2000 µg/mL (2,000,000 ng/mL) of Bupropion to produce an instrument response equal to the 300 ng/mL MDMA calibrator. This concentration of drug in urine is higher than normally seen in patients taking this drug.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – ECSTASY

The Ecstasy Assay has two cutoffs: 300 ng/mL and 500 ng/mL MDMA.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the MDMA cutoff.

	300 Cutoff	500 Cutoff
BDB (3,4-methenedioxy-alpha-ethyl-phenethylamine)	220	780
HMMA (4-hydroxy-3-methoxy-methamphetamine)	50000	50000
MBDB (N-Methyl-1-(3,4-Methylenedioxyphenyl)- 2-Butanamine)	200	430
MDA (Methylenedioxyamphetamine)	280	578
MDEA (Methylenedioxyethamphetamine)	290	528
PMA (paramethoxyamphetamine)	13000	22000
PMMA (paramethoxymethamphetamine)	1900	3600
Haloperidol	8000	(see below)
Trazodone	7000	(see below)

Negative — Structurally Related – The drugs listed are in µg/mL at which they will cross-react equivalent to the MDMA cutoff.

	300 Cutoff	500 Cutoff
d-Amphetamine	160	430
l-Amphetamine	220	685
d,l-Amphetamine	32	83
Benzphetamine	36	88
Bupropion	2000	4400
4-Chloramphetamine	9	60
Chloroquine	2000	2000
Dobutamine	37	130
l-Ephedrine	230	2200
Fenfluramine	5	22
Haloperidol	(see above)	85
Isoxsuprine	22	165
Labelatol	35	80
Mephentermine	180	380
d-Methamphetamine	37	130
l-Methamphetamine	30	87
d,l-Methamphetamine	200	430
Methoxyphenamine	6900	13400
Nylidrin	24	70
Phenmetrazine	3400	7400
Phentermine	700	1700
PPA (Phenylpropanolamine)	700	2200
Propranolol	440	1500
d-Pseudoephedrine	450	1600
nor-Pseudoephedrine	830	7600
Quinacrine	4000	4000
Tranlycypromine	420	2800
Trazodone	(see above)	24
Tyramine	3200	7000

EMIT[®] II PLUS – ECSTASY

Negative

The compounds below were negative for the Ecstasy 300 and 500 cutoffs at the concentrations shown. Concentrations listed are in µg/mL.

Acetaminophen	1000	Ephedrine	62.5
Acetylsalicylic Acid	1000	l-Epinephrine	1000
Albuterol	1000	Escitalopram	1000
Alendronate	1000	Escomeprazole	1000
Alprazolam	1000	Eszopiclone	1000
5-Aminosalicylic Acid	1000	Ezetimibe	1000
Amitriptyline	10	Fenoprofen	1000
Amlodipine	1000	Fentanyl	75
Amoxicillin	1000	Fexofenadine	1000
Atenolol	1000	Fluoxetine	125
Atomoxetine	1000	Fluticasone Propionate	1000
Atorvastatin	1000	Furosemide	1000
Azithromycin	1000	Gabapentin	1000
AZT (Zidovudine)	2000	Glutethimide	500
Benazepril	1000	Glyburide	1000
Benzoyllecgonine	1000	Griseofulvin	1000
Buprenorphine	1000	Hydrochlorothiazide	1000
Bupropion	1000	Hydrocodone	1000
Caffeine	1000	Hydromorphone	1000
Carbamazepine	250	Ibuprofen	1000
Carisoprodol	1000	Imipramine	750
Celecoxib	1000	d,l-Isoproterenol	1000
Cephalexin	1000	Ketorolac Tromethamine	350
Cetirizine	1000	Ketamine	100
Chlorpheniramine	500	Ketoprofen	1000
Chlorpromazine	500	LAMM (l- α -Acetylmethadol)	25
Cimetidine	1000	dinor LAAM (α -Acetyl-N, N-dinormethadol)	25
Ciprofloxacin	1000	Lamotrigine	1000
Citalopram	1000	Lansoprazole	1000
Clomipramine	2.5	Levofloxacin	1000
Clonazepam	1000	Lidocaine	1000
Clonidine	1000	Lisinopril	1000
Clopidogrel Hydrogen Sulfate	1000	LSD (Lysergic acid diethylamide)	0.15
Clotrimazole	1000	MEGX (Monoethyl- glycinexylidide)	1000
Codeine	500	Meloxicam	1000
l-Cotinine	100	Meperidine HCl	1000
Cyclobenzaprine	125	Meprobamate	1000
Desipramine	800	Mescaline	1500
Dextromethorphan	1000	Metaclopramide	1000
Dextrorphan	280	Metaproterenol	250
Diazepam	1000	Metformin	1000
Diclofenac	1000	Methadone	1000
Diethylpropion HCl	1000	Methaqualone	1500
Diltiazem	1000	l-Methylidopa	1000
Diphenhydramine	1000	d,l-Methylidopa	1000
Doxepin	250	Methylphenidate	1000
Doxycycline	1000		
Doxylamine	1000		
EDDP (2-Ethylidene-1,5-dimethyl-3, 3-diphenylpyrrolidine)	1000		
Enalapril Maleate	1000		

EMIT[®] II PLUS – ECSTASY

Negative (continued)

Metoprolol Tartrate	1000	Propofol	1000
Metronidazole	1000	Propoxyphene	1000
Morphine	1000	Propranolol	250
Nalmefene	20	Propylhexedrine	125
Naloxone	500	Quetiapine Fumerate	1000
NAPA (N-Acetylprocainamide)	400	Quinapril	1000
Naproxen	1000	Rabeprazole	1000
Nefazodone	16	Ramipril	1000
Nicotinic Acid	500	Ranitidine	1000
Nitroglycerin	1000	Risedronate	1000
Noracetylmethadol	25	Risperidone	16
Nortriptyline	1000	Rofecoxib	1000
Ofloxacin	100	Scopolamine	500
Omeprazole	1000	Secobarbital	1000
Oxazepam	300	Sertraline	125
Oxycodone	1000	Sildenafil	1000
Oxymorphone	1000	Simvastatin	1000
PABA (p-Aminobenzoic Acid)	1000	11-nor- Δ^9 -THC-9-COOH	100
Paroxetine	5	Thioridazine	100
PCA (1-Phenylcyclohexylamine)	50	Thyroxine	1000
PCC (1-Piperidinocyclohexane Carbonitrile)	50	Tolmetin Sodium	2000
PCP (Phencyclidine)	1000	Topiramate	1000
Phendimetrazine	400	Tramadol	1000
Phenelzine	100	Tranylcypromine	125
Phenethylamine	20	Trifluoperazine	1000
Phenylephrine	20	Trihexylphenidyl	1000
Phenytoin (DPH)	1000	Trimethobenzamide	500
Phthalic Acid	1000	Trimethoprim	1000
Pioglitazone	1000	3-OH-Tyramine	300
Pravastatin	1000	Venlafaxine	1000
Prednisone	1000	Verapamil	1000
Procainamide	1000	Warfarin	1000
Promethazine	1000	Zolpidem	100

EMIT[®] II PLUS – LSD

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, Fentanyl is listed as 3 for the LSD assay at 0.5 ng/mL cutoff. This means that it takes a concentration of 3 ng/mL Fentanyl in urine to produce an instrument response equal to the 0.5 ng/mL LSD calibrator. This concentration of drug in urine may be achieved in patients taking Fentanyl.

Negative – Equivalent Concentration Concentration in µg/mL of listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is NOT clinically significant, and is not generally encountered in individuals taking the listed drug.

For example, d-Amphetamine is listed as 500 for the LSD assay. This means that it takes 500 µg/mL (500,000 ng/mL) of d-Amphetamine to produce an instrument response equal to the 0.5 ng/mL LSD calibrator. This concentration of drug in urine is higher than normally seen in patients taking this drug.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – LSD

The LSD Assay has one cutoff: 0.5 ng/mL LSD.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the LSD cutoff.

	0.5 Cutoff
Ambroxol	60
Amitriptyline	7800
Chlorpromazine	1410
Clomipramine	2560
Dicyclomine	22300
Diltiazem	390
Doxepin	7800
Ergonovine	1000
Fentanyl	3
Fluoxetine	3800
Flurazepam	130
Haloperidol	240
Lysergol	10300
Maprotiline	25100
Methysergide	3000
Metoclopramide	350
Nortriptyline	15600
Norverapamil	13300
Nylidrin	15600
2-oxo-3-hydroxy-LSD	21
Risperidone	1950
Sertraline	390
Thioridazine	7100
Thiothixene	14500
Verapamil	7800

Negative – Equivalent Concentration - The drugs listed are in µg/mL at which they will cross-react equivalent to the LSD cutoff.

	0.5 Cutoff
d-Amphetamine	500
Cyclobenzaprine	29
Diphenhydramine	71
Dothiepin	17
d,l Ephedrine	272
Fenfluramine	46
MDMA (Methylenedioxyamphetamine)	80
Mephentermine	57
Methadone	400
d-Methamphetamine	100
Nicotine	500
Norfluoxetine	50
Paroxetine	100
PCP (Phencyclidine)	30
Perphenazine	5
Prochlorperazine	11
Propoxyphene	1000
Trazodone	24

EMIT[®] II PLUS – LSD**Negative**

The compounds below were negative for the LSD 0.5 cutoff at the concentrations shown. Concentrations listed are in µg/mL.

Acetaminophen	1000	α-Ergocryptine	20
Acetylsalicylic Acid	1000	Ergotamine	100
Albuterol	1000	Ethylmorphine	100
Alprazolam	100	Ezetimibe	1000
5-Aminosalicylic Acid	1000	Fenpropfen	100
Amlodipine	1000	Glyburide	1000
Amobarbital	100	Griseofulvin	1000
Amoxetina	62.5	Hexobarbital	100
Amoxicillin	100	o-Hydroxyhippuric acid	500
d,l-Amphetamine	100	Ibuprofen	100
Aprobarbital	100	lpratriptium bromide	100
Atenolol	100	d,l-Isoproterenol	1000
Atorvastatin	1000	Isoxsuprine	31
Barbituric Acid	100	Ketamine	100
Benazepril	1000	Ketoprofen	1000
Benzoyllecgonine	1000	Lamotrigine	1000
Bromazepam	100	Levofloxacin	1000
Buprenorphine	1000	Lidocaine	500
Bupropion	15.6	Lysergic Acid	100
Butalbital	100	Medazepam	100
Caffeine	100	Mefenamic Acid	100
Captopril	500	Mephobarbital	100
Carbamazepine	250	Meprobamate	1000
Carbamazepine 10,11 Epoxide	500	Metaproterenol	1000
Celecoxib	1000	Methaqualone	1000
Cetirizine	62.5	Metoprolol	1000
Chlordiazepoxide	100	Metronidazole	1000
Chlorpheniramine	1000	Morphine	1000
Cimetidine	100	Morphine-3-Glucuronide	100
Ciprofloxacin	1000	Morphine-6-Glucuronide	100
Citalopram	125	Nalbuphine	100
Clonazepam	100	Naproxen	100
Clorazepate	100	Nefazodone	15.6
Clotrimazole	1000	Nifedipine	500
Codeine	100	Nitrazepam	100
Cotinine	100	Nornicotine	100
Desmethyldiazepam	100	d-Norpropoxyphene	100
Dextromethorphan	125	Omeprazole	1000
5,5'-Diallylbarbituric Acid	100	Oxazepam	250
Diazepam	20	Oxycodone	100
Diclofenac	1000	Penicillin	1000
Dihydrocodeine	100	Pentobarbital	100
Dihydroergotamine	100	Phenothiazine	100
Doxylamine	500	Phentermine	100
Ecgonine	100	Phenylpropanolamine	1000
Ecgonine Methyl Ester	100	Phenytoin	1000
Ephedrine	250	Prazepam	100
l-Epinephrine	20	Pioglitazone	1000

EMIT[®] II PLUS – LSD

Negative (continued)

Promethazine	6.8	Sibutramine HCL	250
Propofol	1000	Sildenafil	1000
Propranolol	7.8	Temazepam	100
Pseudoephedrine	100	11-nor- Δ^9 -THC-9-COOH	150
Psilocin	100	Tolmetin Sodium	1000
Psilocybin	100	Tramadol	500
Quinapril	1000	Tranylcypromine	125
Rabeprazole	7.8	Trifluoperazine	16
Ramipril	1000	Trihexylphenidyl	62.5
Ranitidine	500	Trimethoprim	1000
Risedronate	1000	Tryptamine	100
Rofecoxib	1000	L-Tryptophan	100
Secobarbital	1000	Tyramine	1000
Serotonin	1000	Zolpidem	100

EMIT[®] II PLUS – METHADONE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Negative Concentration of drug tested in $\mu\text{g/mL}$ that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – METHADONE

The Methadone Assay has two cutoffs: 150 ng/mL and 300 ng/mL methadone.

Positive

For Methadone only.

EMIT[®] II PLUS – METHADONE

Negative

The compounds below were negative for the Methadone 150 and 300 cutoffs at the concentrations shown except where noted. Concentrations listed are in µg/mL.

Acetaminophen	1000	Enalapril Maleate	1000
Acetylsalicylic Acid	1000	Ephedrine	1000
Albuterol	1000	Escitalopram	125
Alendronate	1000	Escomeprazole	1000
Alprazolam	1000	Eszopiclone	1000
5-Aminosalicylic Acid	1000	Ezetimibe	1000
Amitriptyline @ 150	25	Fentanyl	1000
Amitriptyline @ 300	50	Fexofenadine	1000
Amlodipine	1000	Fluoxetine	500
Amoxicillin	1000	Fluticasone Propionate	1000
d-Amphetamine	1000	Furosemide	1000
Atomoxetine	500	Gabapentin	1000
Atorvastatin	1000	Glutethimide	500
Azithromycin	1000	Glyburide	1000
AZT (Zidovudine)	2000	Griseofulvin	1000
Benazepril	1000	Hydrochlorothiazide	1000
Benzoyllecgonine	1000	Hydrocodone	1000
Brompheniramine	1929	Hydromorphone	1000
Buprenorphine @ 150	100	Ibuprofen	1000
Buprenorphine @ 300	1000	d,l-Isoproterenol	1000
Bupropion	1000	Isoxsuprine	1000
Caffeine	1000	Ketamine	100
Celecoxib	1000	Ketoprofen	1000
Cephalexin	1000	Ketorolac Tromethamine	1000
Cetirizine	1000	LAAM (l-α-Acetylmethadol) @ 150	2
Chlorpheniramine	500	LAAM (l-α-Acetylmethadol) @ 300	5
Chlorpromazine	125	dinor LAAM (α-Acetyl-N, N-dinormethadol)	25
Cimetidine	1000	Lamotrigine	1000
Ciprofloxacin	1000	Lansoprazole	1000
Citalopram	125	Levofloxacin	1000
Clomipramine	2.5	Lidocaine	1000
Clonazepam	1000	Lisinopril	1000
Clonidine	1000	Lormetazepam	1
Clopidogrel Hydrogen Sulfate	1000	LSD (Lysergic acid diethylamide)	0.01
Clotrimazole	1000	L-α-Methadol	2
Codeine	500	MDA (Methylenedioxyamphetamine)	5
Cotinine	100	MDMA (Methylenedioxy- methamphetamine)	200
Cyclobenzaprine @ 150	28	Meloxicam	1000
Cyclobenzaprine @ 300	62.5	Meperidine @ 150	250
Desipramine	800	Meperidine @ 300	500
Dextromethorphan	1000	Meprobamate	1000
Diazepam	1000	Metaproterenol	1000
Diclofenac	1000	Metformin	1000
Diltiazem	1000	d-Methamphetamine @ 150	2
Diphenhydramine @ 150	250	d-Methamphetamine @ 300	35
Diphenhydramine @ 300	500	Methaqualone	1500
Doxepin @ 150	10	Metoprolol Tartrate	1000
Doxepin @ 300	125	Metronidazole	1000
Doxycycline	1000		
Doxylamine @ 150	100		
Doxylamine @ 300	250		
EDDP (2-Ethylidene-1,5-dimethyl- 3, 3-diphenylpyrrolidine)	1000		

EMIT[®] II PLUS – METHADONE

Negative (continued)

Myoglobin	287	Ranitidine @ 150	900
Morphine	1000	Risedronate @ 300	1000
NAPA (N-Acetylprocainamide)	400	Risperidone	1000
Naproxen	1000	Rofecoxib	1000
Nefazodone	1000	Scopolamine	500
Nortriptyline	750	Secobarbital	1000
Nylidrin	1000	Sertraline	500
Omeprazole	1000	Sibutramine HCL	1000
Oxazepam	300	Sildenafil	1000
Oxycodone	1000	Simvastatin	1000
Oxymorphone	1000	11-nor- Δ^9 -THC-9-COOH @ 150	0.2
Paroxetine	750	11-nor- Δ^9 -THC-9-COOH @ 300	100
PCP (Phencyclidine)	1000	Thioridazine	100
PPA (Phenylpropanolamine)	100	Thyroxine	1000
Phenytoin (DPH)	1000	Tolmetin Sodium	1000
Pioglitazone	1000	Topiramate	1000
Pravastatin	1000	Tramadol @ 150	100
Prednisone	1000	Tramadol @ 300	1000
Promethazine @ 150	37	Tranlycypromine	1000
Promethazine @ 300	75	Trazadone	1000
Propofol	1000	Trifluoperazine	250
Propoxyphene	1000	Trihexylphenidyl	1000
Propranolol	1000	Trimethoprim	1000
Pseudoephedrine	1000	Tyramine	100
Quetiapine Fumerate	1000	Venlafaxine	1000
Quinapril	1000	Verapamil	1000
Rabeprazole	1000	Warfarin	1000
Ramipril	1000	Zolpidem	100
Ranitidine	1000		

EMIT[®] II PLUS – METHAQUALONE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, 3'-Hydroxy-methaqualone is listed as 438 for the Methaqualone assay. This means that it takes a concentration of 438 ng/mL 3'-Hydroxy-methaqualone in urine to produce an instrument response equal to the 300 ng/mL Methaqualone calibrator. This concentration of drug in urine may be achieved in patients taking Methaqualone.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – METHAQUALONE

The Methaqualone Assay has one cutoff: 300 ng/mL methaqualone.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the methaqualone cutoff.

	300 Cutoff
3'-Hydroxy-methaqualone	438
4'-Hydroxy-methaqualone	233
2'-Hydroxymethyl-methaqualone	1670
Mecloqualone	290

EMIT[®] II PLUS – METHAQUALONE

Negative

The compounds below were negative for the Methaqualone 300 cutoff at the concentrations shown. Concentrations listed are in µg/mL.

Acetaminophen	1000	Fexofenadine	1000
Acetylsalicylic Acid	1000	Fluoxetine	1000
Albuterol	1000	Fluticasone Propionate	1000
Alendronate	1000	Furosemide	1000
Alprazolam	1000	Gabapentin	1000
Amitriptyline	1000	Glutethimide	500
Amlodipine	1000	Glyburide	1000
Amoxicillin	1000	Griseofulvin	1000
d-Amphetamine	1000	Hydrochlorothiazide	1000
Atomoxetine	1000	Hydrocodone	1000
Atorvastatin	1000	Hydromorphone	1000
Azithromycin	1000	Ibuprofen	1000
AZT (Zidovudine)	2000	d,l-Isoproterenol	1000
Benazepril	1000	Isoxsuprine	1000
Benzoyllecgonine	1000	Ketamine	100
Buprenorphine	1000	Ketoprofen	1000
Bupropion	1000	Ketorolac Tromethamine	1000
Caffeine	1000	LAAM (l- α -Acetylmethadol)	25
Celecoxib	1000	dinor LAAM (α -Acetyl-N,N-dinormethadol)	25
Cephalexin	1000	Lamotrigine	1000
Cetirizine	1000	Lansoprazole	1000
Chlorpromazine	1000	Levofloxacin	1000
Cimetidine	1000	Lidocaine	1000
Ciprofloxacin	1000	Lisinopril	1000
Citalopram	1000	Lormetazepam	1
Clomipramine	2.5	LSD (Lysergic acid diethylamide)	0.01
Clonazepam	1000	MDA (Methylenedioxyamphetamine)	5
Clonidine	1000	MDMA (Methylenedioxymethamphetamine)	200
Clopidogrel Hydrogen Sulfate	1000	Meloxicam	1000
Clotrimazole	1000	Meperidine	1000
Codeine	500	Meprobamate	1000
Cotinine	100	Metaproterenol	1000
Cyclobenzaprine	1000	Metformin	1000
Desipramine	800	Methadone	1000
Dextromethorphan	1000	d-Methamphetamine	35
Diazepam	1000	Metoprolol Tartrate	1000
Diclofenac	1000	Metronidazole	1000
Diltiazem	1000	Morphine	1000
Diphenhydramine	1000	NAPA (N-Acetylprocainamide)	400
Doxepin	1000	Naproxen	1000
Doxycycline	1000	Nefazodone	1000
Doxylamine	1000	Nortriptyline	1000
Enalapril Maleate	1000	Nylidrin	1000
Ephedrine	1000	Omeprazole	1000
Escitalopram	1000	Oxazepam	300
Esomeprazole	1000	Oxycodone	1000
Eszopiclone	1000	Oxymorphone	1000
Ezetimibe	1000	Paroxetine	1000
Fentanyl	1000	PCP (Phencyclidine)	1000

EMIT[®] II PLUS – METHAQUALONE

Negative (continued)

Phenytoin (DPH)	1000	Sibutramine HCl	1000
Pioglitazone	1000	Sildenafil	1000
Pravastatin	1000	Simvastatin	1000
Prednisone	1000	11-nor- Δ^9 -THC-9-COOH	100
Promethazine	1000	Thioridazine	100
Propofol	1000	Thyroxine	1000
Propoxyphene	1000	Tolmetin Sodium	1000
Propranolol	1000	Topiramate	1000
Pseudoephedrine	1000	Tramadol	1000
Quetiapine Fumerate	1000	Tranylcypromine	1000
Quinapril	1000	Trazadone	1000
Rabeprazole	1000	Trifluoperazine	1000
Ramipril	1000	Trihexylphenidyl	1000
Ranitidine	1000	Trimethoprim	1000
Risedronate	1000	Tyramine	100
Risperidone	1000	Venlafaxine	1000
Rofecoxib	1000	Verapamil	1000
Scopolamine	500	Warfarin	1000
Secobarbital	1000	Zolpidem	100
Sertraline	1000		

EMIT[®] II PLUS – OPIATE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, 6-Acetylmorphine is listed as 435 for the Opiate assay at 300 ng/mL cutoff. This means that it takes a concentration of 435 ng/mL 6-Acetylmorphine in urine to produce an instrument response equal to the 300 ng/mL morphine calibrator. This concentration of drug in urine may be achieved in patients taking Heroin.

Negative - Structurally Related Concentration in µg/mL of listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is NOT clinically significant, and is not generally encountered in individuals taking the listed drug.

For example, Oxymorphone is listed as 9.3 for the Opiate assay at 300 ng/mL cutoff. This means that it takes 9.3 µg/mL (9,300 ng/mL) of Oxymorphone to produce an instrument response equal to the 300 ng/mL morphine calibrator. This concentration of drug in urine is higher than normally seen in patients taking this drug.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – OPIATE

The Opiate Assay has two cutoffs: 300 ng/mL and 2000 ng/mL morphine.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the morphine cutoff.

	300 Cutoff	2000 Cutoff
6-Acetylmorphine	435	4182
Codeine	102–306	660–1980
Dihydrocodeine	291	1872
Hydrocodone	247	1545
Hydromorphone	498	5349
Levofloxacin	125000	–
Levorphanol	1048	4700
Morphine-3-Glucuronide	626	6167
Nalorphine	5540	(see below)
Naloxone	11000	(see below)
Normorphine	1200	–
Ofloxacin	330	–
Oxycodone	1500	(see below)
Pholcodine	320	1400

Negative — Structurally Related – The drugs listed are in µg/mL at which they will cross-react equivalent to the morphine cutoff.

	300 Cutoff	2000 Cutoff
Levallorphan	>5	>120
Meperidine	>15	>400
Nalorphine	(see above)	>100
Naloxone	(see above)	>350
Oxycodone	(see above)	48
Oxymorphone	9.3	>100

EMIT[®] II PLUS – OPIATE

Negative

The compounds below were negative for the Opiate 300 and 2000 cutoffs at the concentrations shown except where noted. Concentrations listed are in µg/mL.

Acetaminophen	1000	EMDP	100
Acetylsalicylic Acid	1000	Enalapril Maleate	1000
Albuterol	1000	Ephedrine	1000
Alendronate	1000	Escitalopram	1000
Alprazolam	1000	Escomeprazole	1000
5-Aminosalicylic Acid	1000	Eszopiclone	1000
Amitriptyline @ 300	500	Ezetimibe	1000
Amitriptyline @ 2000	1000	Fentanyl	1000
Amlodipine	1000	Fexofenadine	1000
Amoxicillin	1000	Fluoxetine	900
d-Amphetamine	1000	Fluticasone Propionate	1000
Atomoxetine	1000	Furosemide	1000
Atorvastatin	1000	Gabapentin	1000
Azithromycin	1000	Glutethimide	500
AZT (Zidovudine)	2000	Glyburide	1000
Benazepril	1000	Goldenseal	tea solution
Benzoyllecgonine	1000	Griseofulvin	1000
Buprenorphine	1000	Hydrochlorothiazide	1000
Bupropion	1000	Ibuprofen	1000
Caffeine	1000	d,l-Isoproterenol	1000
Carisoprodol	1000	Isoxsuprine	1000
Celecoxib	1000	Ketamine	100
Cephalexin	1000	Ketoprofen	1000
Cetirizine	1000	Ketorolac Tromethamine	1000
Chlorpheniramine	1000	LAAM (l-α-Acetylmethadol)	25
Chlorpromazine	125	dinor LAAM (α-Acetyl-N, N-dinormethadol)	25
Cimetidine	1000	Lamotrigine	1000
Ciprofloxacin	1000	Lansoprazole	1000
Citalopram	1000	Lidocaine	1000
Clomipramine	2.5	Lisinopril	1000
Clonazepam	1000	Loperamide	1000
Clonidine	1000	Lormetazepam	1
Clopidogrel Hydrogen Sulfate	1000	LSD (Lysergic acid diethylamide)	0.01
Clotrimazole	1000	MDA (Methylenedioxyamphetamine)	5
Cotinine	100	MDMA (Methylenedioxy-meth amphetamine)	200
Cyclobenzaprine	63	Meloxicam	1000
Desipramine	800	Meprobamate	1000
Dextromethorphan	63	Metaproterenol	1000
Dezocine	1000	Metformin	1000
Diazepam	1000	Methadone	100
Diclofenac	1000	d-Methamphetamine	35
Dihydroergotamine	1000	Methaqualone	1500
Diltiazem	1000	Metoprolol Tartrate	1000
Diphenhydramine	1000	Metronidazole	1000
Dothiepin	100	Myoglobin	287
Doxepin	10	Naltrexone	1000
Doxycycline	1000	NAPA (N-Acetylprocainamide)	400
Doxylamine	500	Naproxen	1000
Droperidol	1000	Nefazodone	1000
EDDP 2-Ethylidene-1, 5-dimethyl-3, 3-diphenylpyrrolidine	1000	Nortriptyline	250
		Nylidrin	1000

EMIT[®] II PLUS – OPIATE

Negative (continued)

Omeprazole	1000	Scopolamine	500
Oxazepam	300	Secobarbital	1000
Paroxetine	1000	Sertraline	250
PCP (Phencyclidine)	1000	Sibutramine HCL	1000
Phenytoin (DPH)	1000	Sildenafil	1000
Pioglitazone	1000	Simvastatin	1000
Pravastatin	1000	11-nor- Δ^9 -THC-9-COOH	100
Prednisone	1000	Thioridazine	100
Promethazine @ 300	143	Thyroxine	1000
Promethazine @ 2000	1000	Tolmetin Sodium	1000
Propofol	1000	Topiramate	1000
Propoxyphene	1000	Tramadol	1000
Propranolol	1000	Tranlycypromine	1000
Pseudoephedrine	1000	Trazadone	1000
Quetiapine Fumerate	1000	Trifluoperazine	500
Quinapril	1000	Trihexylphenidyl	1000
Rabeprazole	1000	Trimethoprim	1000
Ramipril	1000	Tyramine	100
Ranitidine	900	Venlafaxine	1000
Risedronate	1000	Verapamil	1000
Risperidone	1000	Warfarin	1000
Rofecoxib	1000	Zolpidem	100

EMIT[®] II PLUS – PHENYLCYCLIDINE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, PCM is listed as 41 for the Phencyclidine assay. This means that it takes a concentration of 41 ng/mL PCM in urine to produce an instrument response equal to the 25 ng/mL Phencyclidine calibrator. This concentration of drug in urine may be achieved in patients taking PCM.

Negative - Structurally Related Concentration in µg/mL of listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is NOT clinically significant, and is not generally encountered in individuals taking the listed drug.

For example, Dextromethorphan is listed as 120 for the Phencyclidine assay. This means that it takes 120 µg/mL (120,000 ng/mL) of Dextromethorphan to produce an instrument response equal to the 25 ng/mL Phencyclidine calibrator. This concentration of drug in urine is higher than normally seen in patients taking this drug.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – PHENCYCLIDINE

The Phencyclidine Assay has one cutoff: 25 ng/mL phencyclidine.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the phencyclidine cutoff.

	25 Cutoff
1-(1-Phenylcyclohexyl)morpholine (PCM)	41
1-(1-Phenylcyclohexyl)pyrrolidine (PCPy)	54
1-(4-Hydroxypiperidino)phenylcyclohexane	420
1-[1-(2-Thienyl)-cyclohexyl]morpholine (TCM)	80
1-[1-(2-Thienyl)-cyclohexyl]piperidine (TCP)	37
1-[1-(2-Thienyl)-cyclohexyl]pyrrolidine (TCPy)	83
4-Phenyl-4-piperidinocyclohexanol	32
N,N-Diethyl-1-phenylcyclohexylamine (PCDE)	234
Chlorpromazine	#

While chlorpromazine does not cross-react, patients taking chlorpromazine may produce positive results with this assay.

Negative — Structurally Related – The drugs listed are in µg/mL at which they will cross-react equivalent to the phencyclidine cutoff.

	25 Cutoff
Dextromethorphan	120
Dextrorphan	97
Meperidine	67
Mesoridazine	50

EMIT[®] II PLUS – PHENYLCYCLIDINE**Negative**

The compounds below were negative for the Phencyclidine 25 cutoff at the concentrations shown. Concentrations listed are in µg/mL.

Acetaminophen	1000	Fexofenadine	1000
Acetylsalicylic Acid	1000	Fluoxetine	1000
Albuterol	1000	Fluticasone Propionate	1000
Alendronate	1000	Furosemide	1000
Alprazolam	1000	Gabapentin	1000
5-Aminosalicylic Acid	1000	Glutethimide	500
Amitriptyline	125	Glyburide	1000
Amlodipine	1000	Griseofulvin	1000
Amoxicillin	1000	Hydrochlorothiazide	1000
d-Amphetamine	1000	Hydrocodone	250
Atomoxetine	1000	Hydromorphone	500
Atorvastatin	1000	Ibuprofen	1000
Azithromycin	1000	d,l-Isoproterenol	1000
AZT (Zidovudine)	2000	Isoxsuprine	1000
Benazepril	1000	Ketamine	100
Benzoylecgonine	1000	Ketoprofen	1000
Buprenorphine	1000	Ketorolac Tromethamine	1000
Bupropion	1000	LAMM (l- α -Acetylmethadol)	25
Caffeine	1000	dinor LAAM	
Celecoxib	1000	(α -Acetyl-N,N-dinormethadol)	15
Cephalexin	1000	Lamotrigine	1000
Cetirizine	1000	Lansoprazole	1000
Chlorpheniramine	125	Levofloxacin	1000
Cimetidine	1000	Lidocaine	1000
Ciprofloxacin	1000	Lisinopril	1000
Citalopram	750	Lormetazepam	1
Clomipramine	2.5	LSD (Lysergic acid diethylamide)	0.01
Clonazepam	1000	MDA	
Clonidine	1000	(Methylenedioxyamphetamine)	5
Clopidogrel Hydrogen Sulfate	1000	MDMA	
Clotrimazole	1000	(Methylenedioxymethamphetamine)	200
Codeine	500	Meloxicam	1000
Cotinine	100	Meprobamate	1000
Cyclobenzaprine	62	Metaproterenol	1000
Desipramine	800	Metformin	1000
Diazepam	1000	Methadone	1000
Diclofenac	1000	d-Methamphetamine	35
Diltiazem	1000	Methaqualone	1500
Diphenhydramine	1000	Metoprolol Tartrate	1000
Doxepin	250	Metronidazole	1000
Doxycycline	1000	Morphine	58
Doxylamine	1000	NAPA (N-Acetylprocainamide)	400
EDDP (2-Ethylidene-1,5-dimethyl- 3, 3-diphenylpyrrolidine)	1000	Naproxen	1000
Enalapril Maleate	1000	Nefazodone	1000
Ephedrine	1000	Nortriptyline	1000
Escitalopram	750	Nylidrin	1000
Escomeprazole	1000	Omeprazole	1000
Eszopiclone	1000	Oxazepam	300
Ezetimibe	1000	Oxycodone	1000
Fentanyl	1000	Oxymorphone	1000
		Paroxetine	1000
		Phenethylamine	1000
		Phenytoin (DPH)	1000
		Pioglitazone	1000

EMIT[®] II PLUS – PHENYLCYCLIDINE

Negative (continued)

Pravastatin	1000	Sildenafil	1000
Prednisone	1000	Simvastatin	1000
Promethazine	170	11-nor- Δ^9 -THC-9-COOH	50
Propofol	1000	Thioridazine	48
Propoxyphene	1000	Thyroxine	1000
Propranolol	1000	Tolmetin Sodium	1000
Pseudoephedrine	1000	Topiramate	1000
Quetiapine Fumerate	1000	Tramadol	1000
Quinapril	1000	Tranylcypromine	1000
Rabeprazole	1000	Trazadone	1000
Ramipril	1000	Trifluoperazine	1000
Ranitidine	900	Trihexylphenidyl	125
Risedronate	1000	Trimethoprim	1000
Risperidone	1000	Tyramine	100
Rofecoxib	1000	Venlafaxine	1000
Scopolamine	500	Verapamil	1000
Secobarbital	1000	Warfarin	1000
Sertraline	1000	Zolpidem	100
Sibutramine HCL	1000		

EMIT[®] II PLUS – PROPOXYPHENE

The information contained in this document was compiled from the Package Inserts (IFUs) for each Emit[®] Drugs of Abuse assay, as well as additional cross-reactivity testing performed internally. The Package Insert (IFU) should always be consulted for the most recent information on specificity and cross-reactivity.

Definitions of Categories

Positive The concentration in ng/mL of the listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is clinically significant, and may be encountered in individuals taking the listed drug.

For example, Norpropoxyphene is listed as 800 for the Propoxyphene assay. This means that it takes a concentration of 800 ng/mL Norpropoxyphene in urine to produce an instrument response equal to the 300 ng/mL Propoxyphene calibrator. This concentration of drug in urine may be achieved in patients taking Propoxyphene.

Negative – Equivalent Concentration Concentration in µg/mL of listed drug that gives an assay response equal to the cutoff calibrator. The concentration of the listed compound is NOT clinically significant, and is not generally encountered in individuals taking the listed drug.

For example, Imipramine is listed as 30 for the Propoxyphene assay. This means that it takes 30 µg/mL (30,000 ng/mL) of Imipramine to produce an instrument response equal to the 300 ng/mL Propoxyphene calibrator. This concentration of drug in urine is higher than normally seen in patients taking this drug.

Negative Concentration of drug tested in µg/mL that gave an assay response less than the cutoff calibrator. The concentration of the listed compound is higher than normally seen in patients taking this drug.

User Notes

EMIT[®] II PLUS – PROPOXYPHENE

The Propoxyphene Assay has one cutoff: 300 ng/mL propoxyphene.

Positive – The drugs listed are in ng/mL at which they will cross-react equivalent to the propoxyphene cutoff.

	300 Cutoff
Chlorpromazine	7800
Norpropoxyphene	800

Negative – Equivalent Concentration - The drugs listed are in µg/mL at which they will cross-react equivalent to the propoxyphene cutoff.

	300 Cutoff
EDDP (2-Ethylidene-1,5-dimethyl-3, 3-diphenylpyrrolidine)	5000
Imipramine	30

EMIT[®] II PLUS – PROPOXYPHENE**Negative**

The compounds below were negative for the Propoxyphene 300 cutoff at the concentrations shown. Concentrations listed are in µg/mL.

Acetaminophen	1000	Escomeprazole	1000
Acetylsalicylic Acid	1000	Eszopiclone	1000
Albuterol	1000	Ezetimibe	1000
Alendronate	1000	Fentanyl	1000
Alprazolam	1000	Fexofenadine	1000
5-Aminosalicylic Acid	1000	Fluoxetine	125
Amitriptyline	125	Fluticasone Propionate	1000
Amlodipine	1000	Furosemide	1000
Amoxetina	31	Gabapentin	1000
Amoxicillin	1000	Glutethimide	500
d-Amphetamine	1000	Glyburide	1000
Atomoxetine	1000	Griseofulvin	1000
Atorvastatin	1000	Hydrochlorothiazide	1000
Azathioprine	1000	Hydrocodone	900
Azithromycin	1000	Hydromorphone	1000
AZT (Zidovudine)	2000	Ibuprofen	1000
Benazepril	1000	d,l-Isoproterenol	1000
Benzoyllecgonine	1000	Isoxsuprine	1000
Buprenorphine	1000	Ketamine	100
Bupropion	1000	Ketoprofen	1000
Caffeine	1000	Ketorolac Tromethamine	1000
Celecoxib	1000	LAMM (l-α-Acetylmethadol)	25
Cephalexin	1000	dinor LAAM	
Cetirizine	1000	(α-Acetyl-N,N-dinormethadol)	25
Chlorpheniramine	500	Lamotrigine	1000
Cimetidine	1000	Lansoprazole	1000
Ciprofloxacin	1000	Levofloxacin	1000
Citalopram	1000	Lidocaine	1000
Clomipramine	2.5	Lisinopril	1000
Clonazepam	1000	Lormetazepam	1
Clonidine	1000	LSD (Lysergic acid diethylamide)	0.01
Clopidogrel Hydrogen Sulfate	1000	MDA	
Clotrimazole	1000	(Methylenedioxyamphetamine)	5
Codeine	500	MDMA	
Cotinine	100	(Methylenedioxymethamphetamine)	200
Cyclobenzaprine	7.8	Meloxicam	1000
Desipramine	5	Meperidine	1000
Dextromethorphan	1000	Meprobamate	1000
Diazepam	1000	Metaproterenol	1000
Diclofenac	1000	Metformin	1000
Diltiazem	1000	Methadone	100
Diphenhydramine	1000	d-Methamphetamine	35
Doxepin	31	Methaqualone	1500
Doxycycline	1000	Metoprolol Tartrate	1000
Doxylamine	500	Metronidazole	1000
Enalapril Maleate	1000	Morphine	1000
Ephedrine	1000	Myoglobin	287
Escitalopram	1000	NAPA (N-Acetylprocainamide)	400
		Naproxen	1000
		Nefazodone	1000
		Nortriptyline	31
		Nylidrin	1000

EMIT[®] II PLUS – PROPOXYPHENE

Negative (continued)

Omeprazole	1000	Scopolamine	500
Oxazepam	300	Secobarbital	1000
Oxycodone	1000	Sertraline	31
Oxymorphone	1000	Sibutramine HCL	1000
Paroxetine	1000	Sildenafil	1000
PCP (Phencyclidine)	250	Simvastatin	1000
Phenytoin (DPH)	1000	11-nor- Δ^9 -THC-9-COOH	100
Pioglitazone	1000	Thioridazine	100
Pravastatin	1000	Thyroxine	1000
Prednisone	1000	Tolmetin Sodium	1000
Promethazine	125	Topiramate	1000
Propofol	1000	Tramadol	1000
Propranolol	1000	Tranylcypromine	1000
Pseudoephedrine	1000	Trazadone	1000
Quetiapine Fumerate	1000	Trifluoperazine	125
Quinapril	1000	Trihexylphenidyl	1000
Rabeprazole	1000	Trimethoprim	1000
Ramipril	1000	Tyramine	100
Ranitidine	1000	Venlafaxine	1000
Risedronate	1000	Verapamil	1000
Risperidone	1000	Warfarin	1000
Rofecoxib	1000	Zolpidem	100

EMIT[®] II PLUS – ABSORBANCE FLAGS

Absorbance Flags

The compounds listed below may cause absorbance flags with any of the Emit[®] II Plus Drug of Abuse assays.

Amiodarone
Ciprofloxacin
Diflunisal
Griseofluvin
Mefenamic Acid
Metronidazole

Ofloxacin
Pyridium
Solindac
Sulfasalazine
Tolmetin Sodium
Zomepiral

Call your local Technical Solutions Center if instrument errors or flags are encountered in the presence of these compounds.

Siemens Healthcare Diagnostics, the leading clinical diagnostics company, is committed to providing clinicians with the vital information they need for the accurate diagnosis, treatment and monitoring of patients. Our comprehensive portfolio of performance-driven systems, unmatched menu offering and IT solutions, in conjunction with highly responsive service, is designed to streamline workflow, enhance operational efficiency and support improved patient care.

Emit[®], and all associated marks are trademarks of Siemens Healthcare Diagnostics Inc. All other trademarks and brands are the property of their respective owners.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

Global Division

Siemens Healthcare Diagnostics Inc.
1717 Deerfield Road
Deerfield, IL 60015-0778
USA
www.siemens.com/diagnostics

Siemens Global Headquarters

Siemens AG
Wittelsbacherplatz 2
80333 Muenchen
Germany

Global Siemens Healthcare Headquarters

Siemens AG
Healthcare Sector
Henkestrasse 127
91052 Erlangen
Germany
Telephone: +49 9131 84 - 0
www.siemens.com/healthcare

Legal Manufacturer

Siemens Healthcare Diagnostics Inc.
1717 Deerfield Road
Deerfield, IL 60015-0778
USA

www.siemens.com/diagnostics