

Drugs CROSS-REACTIVITY and REACTANTS

Resource Guide 2023



Drugs CROSS-REACTIVITY and REACTANTS

Drugs-of-Abuse

OVERVIEW

Immunoassay-based screening methods provide high sensitivity but may be susceptible to specificity issues. Cross-reactivity of structurally similar substances may occur with immunoassay methodologies, potentially yielding false results.

The attached contains potential cross-reactants with most immunoassay methodologies. This list is not all-inclusive. Other substances and/or technical or procedural factors may interfere with the test and cause false results. For the most current information relative to the testing methodology utilized, refer to the package insert provided, or contact the manufacturer directly.

All positive results from onsite drug testing are presumptive and should be confirmed by a laboratory using an alternative methodology such as Liquid Chromatography/Mass Spectrometry (LC/MS) or Gas Chromatography/ Mass Spectrometry (GC/MS).

COMPOUND (Generic Name)	COMPOUND (Brand Name)	RESULTS
Abacavir	Ziagen	Non-reactive
Acamprosate	Campral	Non-reactive
Acetaminophen (See also Paracetamol)	Acephen, Aceta, Apacet, Dapacen, Excedrin (combination), Feverall, Panadol, Temptra, Tylenol	Non-reactive
Acetaminophen with Codeine (see also Paracetamol w/ codeine)	Tylenol 3, Tylenol with codeine	Positive for Opiates (MOR, OPI)
Acetic Acid	Ethanoic Acid	Non-reactive
Acetophenetidin	Phenacetin	Non-reactive
Acetylsalicylic acid	Anadin, Anasin, Aspirin, Bufferin, Caprin, Disprin, Ecotrin, Empirin, Excedrin	Non-reactive
Aciclovir	Zovirax	Non-reactive
Adinazolam	Deracyn	Non-reactive
Allobarbitol	No known trade names	Positive for Barbiturates (BAR)
Alphenol	No known trade names	Positive for Barbiturates (BAR)
Alprazolam	Xanax	Positive for Benzodiazepines (BZO)
Aluminum Chloride Hexahydrate	Anhydrol Forte Drichlor	Non-reactive
Aluminum Hydroxide	Alisone, Alu-Cap, Gastrocote, Kolanticon, Maalox, Maalox TC, Mucogel, Pyrogastrone, Topal	Non-reactive
Alverine Citrate	Spasmonal Spasmonal Fibre	Non-reactive
Aminopyrine	No known trade names	Non-reactive
Amitriptyline	Elavil, Lentizol, Triptafen, Triptafen-M, Tryptizol	Positive for Tricyclic Antidepressants (TCA)
Amlodipine	Caduet Norvasc, Norvasc	Non-reactive
Ammonia/Ipeacuanha	Ipecac	Non-reactive
Amobarbitol	Amytal, Tuinal	Positive for Barbiturates (BAR)
Amoxicillin or Amoxycillin	Amoram, Amoxil, Augmentin, Heliclear	Non-reactive
Ampicillin	Penbritin, Polycillin, Principen	Non-reactive
Amylmetacresol	Strepsils	Non-reactive
Anhydrol forte	No known trade names	Non-reactive
Antabuse	Disulfiram	Non-reactive
Antazoline Sulphate	Otrivine-Anistin	Non-reactive
Antipyrine	4-Dimethylaminoantipyrine	Non-reactive
Aprobarbitol	No known trade names	Positive for Barbiturates (BAR)
Aspirin	Angettes, ASA, Asasantin, Bayer Aspirin, Caprin, Excedrin	Non-reactive
Atenolol	Beta-adlat, Co-tenidone, Kalten, Tenben, Tenif, Tenoretic, Tenoret 50, Tenormin	Non-reactive
Beclometasone	AeroBec, AeroBec Forte, Asmabec, Beclazone, Becloforte, Becodisks, Beconase, Becotide, Fillair, Nasobec, Qvar, Ventide, Zonivent	Non-reactive
Azlocillin	Securopen	Non-reactive
Baclofen	Kemstro, Lioresal	Non-reactive
Barbital	No known trade names	Positive for Barbiturates (BAR)
Benzalkonium	Bradosol	Non-reactive
Bendrofluazide	Aprinox, Cogaretic, Inderex, Indertic, Neo-Naclax, Neo-Naclax-K, Prestim, Tenben	Non-reactive
Benzocaine	Americaine, Merocaine	Non-reactive

COMPOUND (Generic Name)	COMPOUND (Brand Name)	RESULTS
Benztropine	Cogentin	Non-reactive
Benzydamine	Difflam	Positive for Benzodiazepines (BZO)
Benzylpenicillin	Crystapen	Non-reactive
Bromazepam	Lexotan	Positive for Benzodiazepines (BZO)
Bromopheniramine	Dimetapp, Dimotane, Dimotapp	Non-reactive
Budesonide	Entocort, Pulmicort, Rhinocort	Non-reactive
Buprenorphine	Suboxone, Subutex, Temgesic	Positive for Buprenorphine (BUP)
Bupropion	Wellbutrin, Zyban	Non-reactive
Butabarbital	Butisol, Soneryl	Positive for Barbiturates (BAR)
Butalbital	Fioricet, Fiorinal	Positive for Barbiturates (BAR)
Butethal	No known trade names	Positive for Barbiturates (BAR)
Canestan	Canestan ear/skin/vaginitis/HC	Non-reactive
Carbamate	Pesticide	Non-reactive
Carbamazepine	Tegretol, Teril, Timonil	Non-reactive
Carisoprodol	Soma	Non-reactive
Celecoxib	Celebrex	Non-reactive
Cephalexin	Ceporex, Keflex	Non-reactive
Cetirizine	Zyrtec	Non-reactive
Cetylpyridinium	Cepacol mouth rinse	Non-reactive
Chloral Hydrate	Welldorm	Non-reactive
Chlorazepate	Tranxene	Positive for Benzodiazepines (BZO)
Chlordiazepoxide	Librium	Positive for Benzodiazepines (BZO)
Chlorhexidine Gluconate	Bactrigas, Chlorohex, Chlorohex, Cordsodyl CX Powder, Dermal, Hibicet, Hibiscrub, Hibisol, Hibitane, Instillagel, Naseptin, Nystaform, Serotulle, Steripod, Tisept, Unisept, Uriflex, Uro-Trainer	Non-reactive
Chloroform	No known trade names	Non-reactive
Chlorpheniramine Maleate	Galpseud, Haymine, Piriton	Non-reactive
Chlorpromazine\Cimetidine	Largactil, Dyspamet, Tagamet, Zita	Non-reactive
Cinnarizine	Stugeron	Non-reactive
Ciprofloxacin	Cipro	Non-reactive
Citalopram	Cipramil	Non-reactive
Clobazam	Frisium	Positive for Benzodiazepines (BZO)
Clofibrate	Atromid-S	Non-reactive
Clomethazole	Chlormethiazole, Heminevrin	Non-reactive
Clonazepam	Clonopin, Klonopin, Rivotril	Positive for Benzodiazepines (BZO)
Clotrimazole	Lotrimin, Lotrisone, Mycelex	Non-reactive
Clozapine	Clopine, Clozaril, Zaponex	Non-reactive
Co-Amoxiclav	Augmentin, Augmentin Duo	Non-reactive
Co-danthramar	Dantron	Non-reactive
Codeine Phosphate	Codafen, Continus, Codeine Linctus, Galcodine, Kapake, Migraleve, Pediatric BP, Solpadol, Tylex	Positive for Opiates (MOR, OPI)
Co-Fluampicil	Magnapen	Non-reactive
Combivir	Epivir	Non-reactive
Co-Phenotrope (atropine/diphenoxylate)	Lomotil, Trepergen	Non-reactive
Co-Trimoxazole	No known trade names	Non-reactive

COMPOUND (Generic Name)	COMPOUND (Brand Name)	RESULTS
Cyclobenzaprine	Flexeril	Positive for Tricyclic Antidepressants (TCA)
Cyclosporin	Neoral	Non-reactive
Cyprohetadine	Periactin	Positive for Tricyclic Antidepressants (TCA)
Cyproterone	Androcur, Cyprostat, Nioproxil, Progynova, Siterone	Non-reactive
d/l-Octopamine	No known trade names	Non-reactive
Dantrolene	No known trade names	Non-reactive
Delorazepam	Briantum	Positive for Benzodiazepines (BZO)
Dequalinium	Dequadin	Non-reactive
Desmopressin	DDAVP, Minirin, Stimat	Non-reactive
Dexamethasone	Decadron, Dexa-Rhinaspray Duo, Maxidex, Maxidrol, Minims, Otomize, Sofradex	Non-reactive
Dexamphetamine Sulphate	Adderall, Adderall XR, Dexedrine	Positive for Amphetamine (AMP)
Dextropropoxyphene	Co-proximal, Darvocet, Darvon	Positive for Propoxyphene (PPX)
Diazepam	Diazemuls, Stesolid, Valclair, Valium	Positive for Benzodiazepines (BZO)
Diclofenac Sodium	Dicloflex, Diclomax, Motifene, Volraman, Volsaid, Voltarol	Non-reactive
Dicyclomine	Kolanticon, Merbentyl	Non-reactive
Didanosine	Videx	Non-reactive
Dihydrocodeine	DHC Continus, Paramol, Remedeine, Remedeine Forte	Positive for Opiates (MOR, OPI)
Diltiazem	Cardizem, Dilacor, Tiazac	Non-reactive
Dimethicone	Asilone, Fancorsil	Non-reactive
Diphenoxylate with Atropine	Lomotil	Non-reactive
Diphenhydramine	Benadryl, Medinex, Nytol, Panadol Night	Non-reactive
d-Methamphetamine HCL	Desoxyn, Methamprex, Methedrine	Positive for Methamphetamine (mAMP)
Docusate Sodium	No known trade names	Non-reactive
Donepezil	Aricept	Non-reactive
Dopamine	Intropin	Non-reactive
Dothiepin	Prothiaden	Positive for Tricyclic Antidepressants (TCA)
Doxepin	Sinequan, Xepin	Positive for Tricyclic Antidepressants (TCA)
Doxycycline	Vibramycin, Vibramycin-D	Non-reactive
Doxylamine	Nyquil	Positive for Methadone (MTD)
Droperidol	Dridol, Droleptan, Inapsine	Non-reactive
Duloxetine	Cymbalta	Non-reactive
Efavirenz	Sustiva	Positive for Cannabinoids (THC) Urinary metabolite(s); parent compound non-reactive
Enoxaparin	Clexane, Lovenox	Non-reactive
Erythromycin	Arpimycin, Benzymycin, Erycane, Erymax, Erythrocin, Erythroped, Ilosone, Isotrexin, Lactobinate, Stiemycin	Non-reactive
Estazolam	ProSom	Positive for Benzodiazepines (BZO)
Ethambutol	Myambutol	Non-reactive
Ethylmorphine	No known trade names	Positive for Opiates (MOR, OPI)
Fenofibrate	Tricor	Non-reactive
Ferrous Fumarate	Iron	Non-reactive
Flucloxacillin	Co-fluampicil, Floxapen, Magnapen	Non-reactive

COMPOUND (Generic Name)	COMPOUND (Brand Name)	RESULTS
Flumazenil	Romazicon	Non-reactive
Flunitrazepam	Rohypnol	Positive for Benzodiazepines (BZO)
Fluoxetine	Prozac, Sarafem	Non-reactive
Flupentixol Decanoate	Depixol, Fluanxol	Non-reactive
Fluphenazine	Prolixin	Non-reactive
Flurazepam	Dalmane	Non-reactive
Folic Acid	No known trade names	Non-reactive
Fusidic Acid (Sodium Fusidate)	Fucibet, Fucidin, Fucithalamic	Non-reactive
Gamma-Hydroxybutyrate	GHB	Non-reactive
Gemfibrozil	Gemcor, Lipid	Non-reactive
Gentamicin Sulphate	Cidomycin, Genticin, Gentisone	Non-reactive
Gliclazide	Diamicron, Dianorm	Non-reactive
Halazepam	Alapryl, Pacinone, Paxipam	Positive for Benzodiazepines (BZO)
Haloperidol	Haldol	Non-reactive
Hepatitis B Vaccine	No known trade names	Non-reactive
Hydrochlorothiazide	Hyzaar, Losartan	Non-reactive
Hydrocodone	Loratab, Lorcet, Vicodin	Positive for Opiates (MOR, OPI) and/or Oxycodone (OXY)
Hydrocortisone-17-butyrate	Locoid, Locoid C	Non-reactive
Hydrocortisone		Non-reactive
Hydromorphone	Dilaudid, Hydrostat	Positive for Opiates (MOR, OPI) and/or Oxycodone (OXY)
Hydroxocobalamin	Vitamin B-12	Non-reactive
Hydroxychloroquine	Plaquenil	Non-reactive
Hydroxyzine Atarax, Ucerax		Non-reactive
Hyoscine butylbromide	Buscopan, Scopoderm	Non-reactive
Ibuprofen	Brufen, Codafen, Fenbid, Ibugel, Ibuspray, Motrin, Proflex	Non-reactive
Indomethacin	Flexin continus, Indocid, Indomod	Non-reactive
Interferon Alfa	Intron A, Roferon-A, Viraferon, Wellferon	Non-reactive
Isoniazide	INH	Non-reactive
Isosorbide Dinitrate	Angitak, Cedocard, Isocard, Isoket, Isordil, Sorbichew, Sorbid SA, Sorbitrate	Non-reactive
Ketoprofen	Orudis, Oruvail, Powergel	Non-reactive
Koalin and Morphine Mixture	Diocalm, Entersan, Opazimes	Positive for Opiates (MOR, OPI)
Lactulose	Duphalec, Lactugal	Non-reactive
Lamotrigine	Lamital	Positive for Phencyclidine (PCP)
Lansoprazole	Heliclear, Zoton	Non-reactive
Lisinopril	Carace, Zestril, Zestoretic	Non-reactive
l-Methamphetamine HCL	Vick's Inhaler	Positive for Methamphetamine (mAMP)
Lofepramine	Gamanil, Zestoretic	Positive for Tricyclic Antidepressants (TCA)
Lofexidine	Britoflex	Non-reactive
Loperamide	Imodium, Loperagen, Norimide	Non-reactive
Loratadine	Claritin	Non-reactive
Lorazepam	Ativan	Positive for Benzodiazepines (BZO)
Lormetazepam	Noctamide	Positive for Benzodiazepines (BZO)
Mannitol	Gaviscon	Non-reactive

COMPOUND (Generic Name)	COMPOUND (Brand Name)	RESULTS
Medazepam	Anxitol, Lerisum, Medacepan, Nobritol, Nobrium	Positive for Benzodiazepines (BZO)
Magnesium Alginate	Gaviscon	Non-reactive
Mefenamic Acid	Ponstan, Ponstel	Non-reactive
Meperidine	Demerol, Pethidine	Non-reactive
Metamizole	Novalgin	Non-reactive
Methadone Hydrochloride	Dolophine, Methadose, Physetone	Positive for Methadone (MTD)
Methotrexate	Amethopterin	Non-reactive
Methylenedioxyamphetamine (MDA)	Eve (slang), Love Drug (slang)	Positive for Amphetamine (AMP) and Ecstasy (MDMA)
Methylenedioxymethamphetamine (MDMA)	Adam (slang), E (slang), Ecstasy (slang), XTC (slang)	Positive for Methamphetamine (mAMP) and Ecstasy (MDMA)
Metronidazole	Anabact, Elyzol, Flagyl, Metrogel, Metrolyl, Metrotop, Neuratop, Noritate, Rozex, Zidoval, Zymoet	Non-reactive
Midodrine	Amatine/Proamatine, Gutron	Non-reactive
Mirtazepine	Avanza, Remeron, Soltab, Zispin	Non-reactive
Morphine	Astramorph, Cyclimorph, Duramorph, Morcap, Morphine Sulfate, MS Contin, Oramorph, Roxanol, Severedol	Positive for Opiates (MOR, OPI)
Moxonidine	Inn	Non-reactive
Nabumetone	Relafen	Non-reactive
Nadolol	Corgard, Corgaretic, Corgartic	Non-reactive
Nalbuphine	Nubain	Non-reactive
Naloxone	Narcan	Non-reactive
Naltrexone	Antaxone Nalorex Trexan	Non-reactive
Naproxen	Aleve, Condrotec, Napratec, Naprosen, Naprosyn, Nycopren, Synflex	Non-reactive
Nefazodone	Nefadar, Serzone	Non-reactive
Nefopam	Acupan	Non-reactive
Niaspan	Niacin	Non-reactive
Nicorandil	Ikorel	Non-reactive
Nicotine	Nicoderm, Nicorette, Nicotinell, Nicotrol, Niquitin	Non-reactive
Nifedipine	Adalat, Nifar, Nifecard, Nif-ten, Procardia	Non-reactive
Nitrazepam	Mogadon, Somnite	Positive for Benzodiazepines (BZO)
Norethindrone	BiNovum, Brevinor, Climagest, Climesse, Elleste Duet, Estracombi, Evorel, Kliofem, Kliovance, Loestrin, Micronor, Noriday, Norimin, Norinyl, Noristat, Norlutin, Nuvelle, Ovysmen, TriNovum, Trisquens, Utovian	Non-reactive
Noscapine	Narcotine	Non-reactive
Olanzapine	Zyprexa	Non-reactive
Omeprazole	Prilosec	Non-reactive
Orphenadrine	Disipil, Norflex, Norgesic	Non-reactive
Oxazepam	Ox-pam, Serax	Positive for Benzodiazepines (BZO)
Oxymetazoline	Afrin, Neo-synephrine	Non-reactive
Oxytetracycline	Terra-Cortil, Terramycin, Trimovate	Non-reactive
Paracetamol (Acetaminophen)	Fortagesic, Paradote	Non-reactive

COMPOUND (Generic Name)	COMPOUND (Brand Name)	RESULTS
Paracetamol (Acetaminophen) / Codeine Preparations	Co-codamol, Codafen, Co-dydramol, Kapake, Remedine, Solpadol, Tylenol 3	Positive for Opiates (MOR, OPI)
Paroxetine	Paxil, Seroxat	Non-reactive
Penicillin	Combicillin, Mefoxin	Non-reactive
Pentobarbital	Nembutal	Positive for Barbiturates (BAR)
Phenobarbitone (see also Phenobarbital)	Luminal	Positive for Barbiturates (BAR)
Pericyazine	Amplan, Aolept, Apamin, Iryakin, Nemactil, Neulactil, Propetyl, Psycholept	Amplan, Aolept, Apamin, Iryakin, Nemactil, Neulactil, Propetyl, Psycholept
Prazepam	Centrax, Demetrix	Positive for Benzodiazepines (BZO)
Phenytoin	Dilantin, Epanutin, Epitard	Potential Positive for Barbiturates (BAR) Urinary metabolite(s) only; parent compound is non-reactive
Pholcodine	Galenphol, Pavacol-D, Strong BP, Thebacon	Positive for Opiates (MOR, OPI)
Piperacillin	Pipracil, Tazobactam	Non-reactive
Prednisolone	Delta-cortef, Econopred, Inflamase, PEDIAPRED, Prelone	Non-reactive
Procaine	Novocain	Non-reactive
Progesterol	No known trade names	Non-reactive
Promethazine	Allerfen, Anergan, Antinaus, Aprobit, Avomine, Baymethazine, Diprozin, Fenegan, Methazine, Pamagren 100, Phenergen	Positive for Tricyclic Antidepressants (TCA)
Propranolol	Beta-Progane, Inderal, Inderetic, Inderex	Non-reactive
Pseudoephedrine	Afrinol, Expulin, Sudafed, Tylenol Cold (combination)	Non-reactive
Ranitidine	Pylorid, Zantac	Positive for Methamphetamine (M-AMP) Urinary metabolite(s) only; parent compound is non-reactive
Risperidone	Risperdal	Non-reactive
Salbutamol	Aerocrom, Aerolin, Airomir, Asmasal, Combivent, Duovent, Venotlin, Ventide, Ventodisks, Volmax	Non-reactive
Secobarbital	Seconal	Positive for Barbiturates (BAR)
Senosides	Senokot	Non-reactive
Sertraline	Zoloft	Potential Positive for Benzodiazepines (BZO)
Sodium Valproate	Depakene, Depakote, Epilim	Non-reactive
Temazepam	Restoril	Positive for Benzodiazepines (BZO)
Testosterone	Andropatch, Restandol, slang name "anabolic steroids," Sustanon, Virormone	Non-reactive
Thioridazine	Mellaril	Non-reactive
Thyroxine Sodium	Eltroxin	Non-reactive
Tramadol	Tramake, Ultram, Zamadol, Zydol	Non-reactive
Trazodone	Desyrel, Molipaxin, Trialodine	Non-reactive
Triazolam	Halcion	Positive for Benzodiazepines (BZO)
Valporic Acid	Depakene	Non-reactive
Venlafaxine	Effexor, Effexor XL	Potential Positive for Phencyclidine (PCP)
Warfarin Sodium	Coumadin, Marevan	Non-reactive

Drugs CROSS-REACTIVITY and REACTANTS

Definitions & Descriptions

What is..

Cross-Reactivity (*noun*): The reaction of an antibody with an antigen other than the one which gave rise to it.

Description: *In a general sense, is the reactivity of an observed agent which initiates reactions outside the main reaction expected. This has implications for any kind of test or assay, including diagnostic tests in medicine, and can be a cause of false positives. In immunology, the definition of cross-reactivity refers specifically to the reaction of the immune system to antigens. There can be cross-reactivity between the immune system and the antigens of two different pathogens, or between one pathogen and proteins on non-pathogens, which in some cases can be the cause of allergies.*

Reactants (*plural noun*): A substance that takes part in and undergoes change during a reaction.

Immunoassay (*noun*): A technique or test (as the enzyme-linked immunosorbent assay) used to detect the presence or quantity of a substance (as a protein) based on its capacity to act as an antigen or antibody.

Description: *A biochemical test that measures the presence or concentration of a macromolecule or a small molecule in a solution through the use of an antibody (usually) or an antigen (sometimes). The molecule detected by the immunoassay is often referred to as an "analyte" and is in many cases a protein, although it may be other kinds of molecules, of different sizes and types, as long as the proper antibodies that have the required properties for the assay are developed. Analytes in biological liquids such as serum or urine are frequently measured using immunoassays for medical and research purposes.*

Methodologies (*plural noun*): A technique or test (as the enzyme-linked immunosorbent assay) used to detect the presence or quantity of a substance (as a protein) based on its capacity to act as an antigen or antibody.

Description: *a structured procedure for bringing about a certain goal. In the context of research, this goal is usually to discover new knowledge or to verify pre-existing knowledge claims. This normally involves various steps, like choosing a sample, collecting data from this sample, and interpreting this data. The study of methods involves a detailed description and analysis of these processes.*

Liquid Chromatography/Mass Spectrometry (LC/MS): A analytical chemistry technique that combines the physical separation capabilities of liquid chromatography (or HPLC) with the mass analysis capabilities of mass spectrometry (MS).

Description: *Coupled chromatography - MS systems are popular in chemical analysis because the individual capabilities of each technique are enhanced synergistically. While liquid chromatography separates mixtures with multiple components, mass spectrometry provides spectral information that may help to identify (or confirm the suspected identity of) each separated component.[1] MS is not only sensitive but provides selective detection, relieving the need for complete chromatographic separation.*

Gas Chromatography/Mass Spectrometry (GC/MS): A analytical method that combines the features of gas chromatography and mass spectrometry to identify different substances within a test sample.

Description: *Applications of GC-MS include drug detection, fire investigation, environmental analysis, explosives investigation, and identification of unknown samples, including that of material samples obtained from planet Mars during probe missions as early as the 1970s. Additionally, it can identify trace elements in materials that were previously thought to have disintegrated beyond identification. Like liquid chromatography-mass spectrometry, it allows analysis and detection even of tiny amounts of a substance.*

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Definitions & Descriptions

What are..

Clearances *(What do they mean?)*

FDA 510K, CLIA-Waived (CLIA): A test that can be performed by anyone at home or in any setting without special training or certification.

CE (CE): A symbol applied to products to indicate that they conform with relevant European Union (EU) directives regarding health and safety or environmental protection.

Health Canada Class III: Depending on the risks associated with that device's use, a device would be licensed by Health Canada as Class I, II, III, or IV following the Medical Devices Regulations under the Food and Drugs Act, with Class I having the lowest risk and Class IV having the highest. A medical device that is used as an In-vitro Diagnostic Device (IVDD), like an on-site urine drug test, must have a Class III license.

Forensic-Use Only (FUO): Devices intended for use only in drugs of abuse testing for law enforcement purposes. FUO devices are not designed, tested, developed, or labeled for use in other settings, such as clinical diagnostic or workplace settings.

Employment-Use Only (EUO): Devices intended for the detection of drugs of abuse and/or metabolites in human urine for the workplace and insurance screening purposes only, excluding tests intended for Federal drug testing programs (SAMHSA, DOT, US Military).

Regulatory *(what do they represent?)*

FDA (Food and Drug Administration): A federal agency of the United States Department of Health and Human Services. The FDA is responsible for protecting and promoting public health through the control and supervision of food safety, tobacco products, caffeine products, dietary supplements, prescription and over-the-counter pharmaceutical drugs (medications), vaccines, biopharmaceuticals, blood transfusions, medical devices, electromagnetic radiation emitting devices (ERED), cosmetics, animal foods & feed and veterinary products.

The FDA's primary focus is enforcement of the Federal Food, Drug, and Cosmetic Act (FD&C), but the agency also enforces other laws, notably Section 361 of the Public Health Service Act, as well as associated regulations.

Health Canada: A department of the Government of Canada responsible for national health policy. The department itself is also responsible for numerous federal health-related agencies, including the Canadian Food Inspection Agency (CFIA) and the Public Health Agency of Canada (PHAC), among others. These organizations help to ensure compliance with federal law in a variety of healthcare, agricultural, and pharmaceutical activities. This responsibility also involves extensive collaboration with various other federal- and provincial-level organizations in order to ensure the safety of food, health, and pharmaceutical products—including the regulation of health research and pharmaceutical manufacturing/testing facilities..

cGMP (Current Good Manufacturing Practice): Ensures the quality of products by carefully monitoring manufacturers' compliance with its Current Good Manufacturing Practice (cGMP) regulations. The cGMP regulations contain minimum requirements for the methods, facilities, and controls used in manufacturing, processing, and packing of regulated products. The regulations make sure that a product is safe for use.

ISO (International Standards Organization): A international nongovernmental organization made up of national standards bodies; it develops and publishes a wide range of proprietary, industrial, and commercial standards and is comprised of representatives from various national standards organizations.

Thank you!

"SCIENCE IS THE KNOWLEDGE OF
CONSEQUENCES, AND DEPENDENCE OF
ONE FACT UPON ANOTHER."

Thomas Hobbes



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