



Professional **TestKits** delivered direct

Master Cross-Reactions List

Immunoassay and Cross-Reactants

Overview

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

Immunoassay manufacturers test for common potential interfering substances and list those results in the data sheet; however, testing every compound is not feasible. High doses of a single drug or concurrent dosing of multiple drugs may significantly influence urine drug test results. These clinical scenarios are difficult to replicate in bench settings during the immunoassay development process and as such may only become known once the assay is introduced to market.

The attached contains potential reactants and 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 immunoassay testing methodology utilized at your facility, refer to the package insert provided by the manufacturer of your kits or contact the manufacturer directly.

All positive results from on-site or at home 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 (Trade Name) | RESULTS |
|--|--|--|
| Abacavir | Ziagen | Non-reactive |
| Acamprosate | Campral | Non-reactive |
| Acetaminophen (See also Paracetamol) | Acephen, Aceta, Apacet, Dapacen, Excedrin (combination), Feverall, Panadol, Tempra, Tylenol | Non-reactive |
| Acetaminophen with Codeine (see also Paracetamol with 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 (combination) | Non-reactive |
| Aciclovir | Zovirax | Non-reactive |
| Adinazolam | Deracyn | Non-reactive |
| Allobarbital | 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/Ipecuanha | Ipecac | Non-reactive |
| Amobarbital | 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 |
| Aprobarbital | 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, Tenorectic, Tenoret 50, Tenormin | Non-reactive |
| Atorvastatin | Lipitor | Non-reactive |
| Azlocillin | Securopen | Non-reactive |
| Baclofen | Kemstro, Lioresal | Non-reactive |
| Barbital | No known trade names | Positive for Barbiturates (BAR) |

| COMPOUND (Generic Name) | COMPOUND (Trade Name) | RESULTS |
|--------------------------|--|--|
| Beclometasone | AeroBec, AeroBec Forte, Asmabec, Beclazone, Becloforte, Becodisks, Beconase, Becotide, Fillair, Nasobec, Qvar, Ventide, Zonivent | Non-reactive |
| Bendrofluazide | Aprinox, Cogaretic, Inderex, Indertic, Neo-Naclax, Neo-Naclax-K, Prestim, Tenben | Non-reactive |
| Benzalkonium | Bradosol | Non-reactive |
| Benzocaine | Americaine, Merocaine | Non-reactive |
| Benztropine | Cogentin | Non-reactive |
| Benzydamine | Difflam | Positive for Benzodiazepines (BZO 200 ng/mL) |
| 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) |
| Buproprion | 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 | Bactrigras, Chlorohex, Chlorohex, Cordsodyl CX Powder, Dermol, Hibicet, Hibiscrub, Hibisol, Hilitane, 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 | Largactil | Non-reactive |
| Chlorprothixene | Clozan, Fluanxol, Taractan, Truxal | Non-reactive |
| Cimetidine | 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 |

| COMPOUND (Generic Name) | COMPOUND (Trade Name) | RESULTS |
|--|---|--|
| 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 |
| Cyclobenzprazine | Flexeril | Positive for Tricyclic Antidepressants (TCA) |
| Cyclosporin | Neoral | Non-reactive |
| Cyproheptadine | Periactin | Positive for Tricyclic Antidepressants (TCA) |
| Cyproterone | Androcur, Cyprostat, Nioproxil, Progynova, Siterone | Non-reactive |
| d/I-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, Stimate | 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 |
| Dipenoxylate 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 |

| COMPOUND (Generic Name) | COMPOUND (Trade Name) | RESULTS |
|--------------------------------|---|--|
| Efavirenz | Sustiva | Positive for Cannabinoids (THC) Urinary metabolite(s) only; parent compound is non-reactive |
| Enoxaparin | Clexane, Lovenox | Non-reactive |
| Erythromycin | Arpimycin, Benzymycin, Erycane, Erymax, Erythrocin, Erythroped, Ilosone, Isotrexin, Lactobinate, Stiemycin, Tiloryth, Zineryl | 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 |
| 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, Fucithalmic | Non-reactive |
| Gamma-Hydroxybutyrate | GHB | Non-reactive |
| Gemfibrozil | Gemcor, Lopid | 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 | | Non-reactive |
| Hydrocortisone-17-butrate | Locoid, Locoid C | Non-reactive |
| Hydromorphone | Dilauidid, 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 continuo, 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 |

| COMPOUND (Generic Name) | COMPOUND (Trade Name) | RESULTS |
|--------------------------------------|--|--|
| Lamotrigine | Lamitcal | Positive for Phencyclidine (PCP) |
| Lansoprazole | Heliclear, Zoton | Non-reactive |
| Lisinopril | Carace, Zestril, Zestoretic | Non-reactive |
| I-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) |
| Magnesium Alginate | Gaviscon | Non-reactive |
| Mannitol | Gaviscon | Non-reactive |
| Medazepam | Anxitol, Lerisum, Medacepan, Nobritol, Nobrium | Positive for Benzodiazepines (BZO) |
| 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 |
| Methylenedioxymethamphetamine (MDMA) | 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) |
| Methylenedioxypyrovalerone | Bath Salts (Slang) | Non-reactive |
| Metoclopramide | Reglan | Non-reactive |
| Metronidazole | Anabact, Elyzol, Flagyl, Metrogel, Metrolyl, Metropot, 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) |

| COMPOUND (Generic Name) | COMPOUND (Trade Name) | RESULTS |
|--|---|---|
| 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 |
| Paracetamol (Acetaminophen) / Codeine Preparations | Co-codamol, Codafen, Co-dydramol, Kapake, Remedine, Solpadol, Tylenol 3, Tylex | Positive for Opiates (MOR, OPI) |
| Paroxetine | Paxil, Seroxat | Non-reactive |
| Penicillin | Combicillin, Mefoxin | Non-reactive |
| Pentobarbital | Nembutal | Positive for Barbiturates (BAR) |
| Pericyazine | Amplan, Aolept, Apamin, Iryakin, Nemactil, Neulactil, Propetyl, Psycholept | Non-reactive |
| Phenobarbital | Donnatal | Positive for Barbiturates (BAR) |
| Phenobarbitone (see also Phenobarbital) | Luminal | Positive for Barbiturates (BAR) |
| 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 |
| Prazepam | Centrax, Demetrin | Positive for Benzodiazepines (BZO) |
| 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, Baymethzine, Diprozin, Fenergan, Methazine, Pamagren 100, Phenergen | Positive for Tricyclic Antidepressants (TCA) |
| Propranolol | Beta-Propane, 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) |
| Sennosides | Senokot | Non-reactive |
| Sertraline | Zoloft | Potential Positive for Benzodiazepines (BZO) |
| Sodium Valproate | Depakene, Depakote, Epilim | Non-reactive |

| COMPOUND (Generic Name) | COMPOUND (Trade Name) | RESULTS |
|-------------------------|---|--|
| Temazepam | Restoril | Positive for Benzodiazepines (BZO) |
| Testosterone | Andropatch, Restandol, slang name "anabolic steroids," Sustanon, Viormone | 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 |