



# **IS NIR Spectra**

## **Pharma, Drugs (1340 spectra)**

The NIR sublibrary "IS NIR Spectra Pharma, Drugs (1340 spectra)" has been designed for QC or R&D laboratories of pharmaceutical industry, for laboratories studying drugs and forensic laboratories. It includes NIR spectra of pharmaceutical excipients, drugs or active substances and other supporting chemicals used in pharma industry.

The near infrared spectral library „IS NIR Spectra“ is a unique collection of NIR (near infrared) digital spectra. The spectra have been collected in range 4200-10000 cm<sup>-1</sup> (=2.4 – 1 micrometers).

„IS NIR Spectra“ is the biggest and newest NIR library available on the market. This spectral library has been designed for users who use their NIR spectrometer not only for quantitative and chemometric analysis, but also want to identify unknown samples or just want to use the library as reference spectra database.

IS means "Integrating Sphere" and at the same time "Identify Sample".

Technical parameters:

The „IS NIR Spectra“ were collected using the FT-NIR Spectrometer equipped with Integrating Sphere Accessory.

Resolution: standard 4cm<sup>-1</sup>

Customized resolution: upon special request the spectra can be delivered in customized resolution to reach better correspondence with spectra collected by customer NIR instrument

Spectral range in wavenumbers units: 4200-10000 cm<sup>-1</sup>

Spectral range in wavelength units: 2.4 – 1 micrometers

Only one spectrum/compound covering the mentioned spectral range

Typical text information about the sample includes (when available):

Compound name including synonyms

CAS number

Chemical formula

Molecular weight

Additional information about the sample like manufacturer and comments.

Download a free NIR library of 30 NIR spectra to check the compatibility of you instrument with the „IS NIR Spectra“.

Samples were selected and NIR spectra collected 2010-2012.

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**IS NIR Spectra – Pharma, Drugs**

**1340 NIR spectra**

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This library is available as digital searchable library compatible with your spectroscopic software. Visit the „Download“ section of our webpage to select the correct library format. The spectra are available in wavenumbers (cm-1) units or wavelength (micrometer) units. Also the library can be delivered with SEARCH software or in \*.pdf format (if you do not have a spectroscopic software).

The near infrared spectral library „IS NIR Spectra“ can be purchased as a complete collection of over 6049 spectra or as following application specific sublibraries.

Ordering Code	Library Name	Number of Spectra
ISNNCM-X	IS NIR Complete Collection	6049
IS NIR Sublibraries*:		
ISNNST-X	IS NIR Starter	1043
ISNNPH-X	IS NIR Pharma, Drugs	1340
ISNNPO-X	IS NIR Polymers, Additives	1740
ISNNHA-X	IS NIR Hazardous, Toxic	1718
ISNNDY-X	IS NIR Dyes, Pigments	1005

\* all sublibraries spectra are included in the complete collection ISNNCM-X and have the same technical parameters

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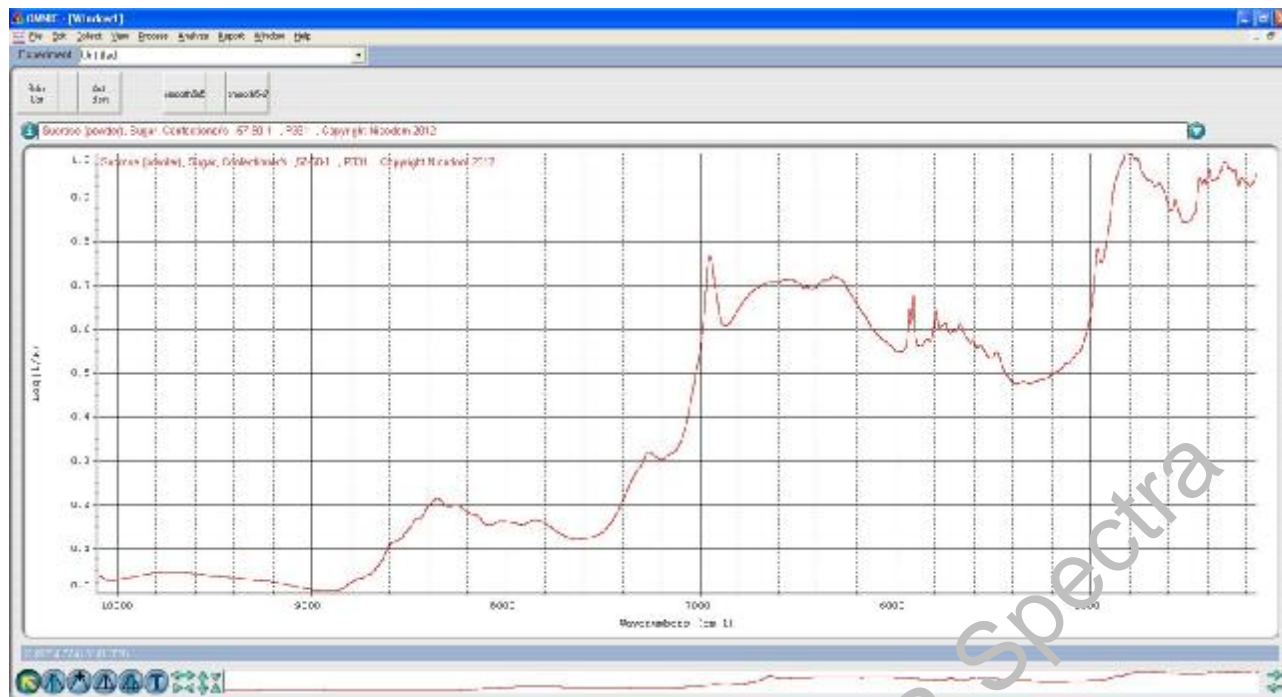
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## Example Spectra

Pictures: NIR spectrum of Sucrose (powder), CAS: 57-50-1, C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>, in cm<sup>-1</sup> units (range 4200-10000 cm<sup>-1</sup>), the second spectrum in micrometers (2.4 – 1 micrometers), both resolution 4cm<sup>-1</sup>, Copyright Nicodom 2012



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## List of Spectra /Compound Names

L-Alanine  
L-Arginine  
L-Histidine  
L-Proline  
L-Serine  
L-Lysine Monohydrochloride  
L-Asparagine  
L-Asparagine \*H2O  
L-Aspartic acid  
L-Cysteine  
L-Cysteine HCl  
L-Cystine  
L-Histidine Hydrochloride Monohydrate  
L-Hydroxyproline  
L-Isoleucine  
L-Leucine  
L-Lysine acetate  
L-Methionine  
L-Ornithine  
L-(+)-Ornithine monohydrochloride  
L-Threonine  
L-Tryptophan  
L-Valine  
D-Alanine  
D-Arginine  
D-Arginine hydrochloride  
D-Aspartic acid  
DL-Alanine  
DL-Asparagine monohydrate  
DL-Cystathionine  
D-Leucine  
DL-Methionine  
DL-Phenylalanine  
DL-Tryptophan  
D-Tryptophan  
D-Valine  
Histamine  
3,4-Dihydroxy-L-Phenylalanine  
L-Lysine Monohydrochloride

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L-Phenylalanine  
L-Tyrosine  
Citric Acid  
Sucrose (powder), Sugar, Confectioner's  
Talc  
Urea  
D-Glucose Monohydrate  
Titanium Dioxide  
Ethanol  
Toluene  
Benzoic acid  
Bicarbonate of soda  
Acetylsalicylic acid  
Benzene  
Glycine  
L(+)-Tartaric acid  
Paragum 501 (Polyacrylate)  
Acacia gum  
Carrageenan  
Paraform  
Paraldehyde  
PEG 7 Glyceryl Cocoate  
Xanthan gum  
Acetylated distarch adipate  
Agar powder  
Candelilla wax  
Carnauba wax  
Ceresin  
Cetaceum, Cetyl Palmitate 15  
Ethoxylated Lanoline 4000  
Lanolin Anhydrous  
Wax, Yellow Bees Wax  
Tween 60, POE (20) Sorbitan Monopalmitate  
Aliquat 336  
Aluminium acetate basic  
Aluminium Hydroxide  
Aluminium Stearate  
Aluminosilicate  
Ammonium Bromide  
Brij 35, Polyoxyethylene (35) Lauryl Ether  
Calcium Oxide  
Dibutylphthalate  
Diethylenetriamine  
Disodium EDTA

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Edetate Dipotassium Magnesium  
Ethyl palmitate  
Glycerol Stearate  
Glyceryl Stearate  
Gum Tragacanth  
Hexadecanoic Acid, Palmitic acid  
Iron (III) Hydroxide  
Iron (III) Oxide monohydrate, yellow  
Kaolin, Aluminum silicate dihydrate  
Magnesium acetate tetrahydrate  
Magnesium Chloride  
Magnesium Chloride Hexahydrate  
Magnesium Stearate  
Manganese stearate  
Mono and Diglycerides of fatty acids  
Nacrelon S-30 (pearlescent pigment)  
Octadecanoic Acid, Stearic Acid  
Oxide Aluminium  
Sodium Metasilicate  
Sodium Silicate  
Sorbitan tristearate  
Succinimide  
Triton, X-100  
Tween 65, POE (20) sorbitan tristearate  
2,6-Di-tert-butyl-p-cresol  
(E)-Anethole  
1-Docosanol  
1-Octadecanol  
4-Methyl-2-pentanone  
6-Aminohexanoic acid  
Aluminium Chlorohydrate  
Ammonium Acetate  
Bentonite  
Beta-cyclodextrine  
Butylated hydroxyanisole, BHA  
Calcium chloride dihydrate  
Calcium Hydroxide  
Calcium Lactate  
Carbonate Sodium Decahydrate  
Carbonate Zinc Basic  
Chloral hydrate  
Citric Acid Monohydrate  
Cocoamidopropyl Hydroxysultaine  
D-(+)-Malic acid

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Dextrin  
D-Galactonic acid g-lactone  
Di(ethylene glycol) distearate  
Diphosphate Tetrasodium  
Dodecanoic acid  
Ethyl maltol  
Gallotannin  
Inositol  
Iron Citrate  
Isostearyl isostearate  
L-Lactic acid  
L-Lactic acid, Sodium salt  
L-Malic acid  
Magnesium Carbonate Basic Hydrate  
Metabisulfite Potassium  
Myristic acid  
Stearate Calcium  
Oil of Peppermint, Menthol  
Orthoboric Acid  
Pentasodium triphosphate  
Persulfate Ammonium  
Persulfate Sodium  
Phenyl Salicylate  
Phosphate Ammonium Dibasic  
Phosphate Ammonium Monobasic  
Phosphate Calcium Dibasic  
Phosphate Calcium Monobasic  
Phosphate Potassium Monobasic  
Phosphate Potassium Tribasic n-hydrate  
Potassium chloride  
Potassium Nitrate  
Ethanecarboxylic acid  
Salicylic acid  
Sodium Cetylsulfate  
Sodium Tetraborate Decahydrate  
Stannous Chloride  
Sulfate Aluminium  
Sulfate Ammonium  
Sulfate Ferrous  
Sulfate Magnesium  
Sulfate Sodium Monobasic  
Thiosulfate Sodium  
Glycol Bis(Hydroxyethyl) Ether  
Zinc salicylate

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1,3-Butanediol  
1,5-Cyclooctadiene  
1,5-Pentanediol  
1-Dodecene  
1-Hexadecene  
1-Nonanol  
1-Propanol  
1-Tetradecene  
2,3-Butanediol  
2-Benzyloxyethanol  
2-Butanone  
2-Methyl-1-propanol  
2-Methyl-2-hexanol  
2-Methyl-2-pentanol  
2-Octanol  
3-Amino-1-propanol  
Acetic anhydride  
Acrylonitrile  
Anethole  
Benzaldehyde  
Benzyl alcohol  
Butyl ether  
Butyl formate  
Butyraldehyde  
Chloroform  
Cycloheptanol  
Cyclohexanol  
Cyclohexanone  
Diethyl ethylmalonate  
Diethyl malonate  
Diethyl methylmalonate  
Diethyl oxalate  
Diethyl phthalate  
Diethyl propylmalonate  
Diethyl succinate  
Diethylene Glycol Dibutyl Ether  
Diethylene glycol dimethyl ether  
Dimethyl succinate  
2-Dimethylaminoethanol  
Dioctylphthalate  
2-Oxohexamethyleneimine  
Ethyl acetate  
Ethyl caproate  
Ethyl crotonate

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Ethyl dodecanoate  
Ethyl formate  
Ethyl Lactate  
Ethyl salicylate  
Ethylene Diglycol Monoethyl Ether  
Ethylene glycol  
Ethylene glycol dimethacrylate  
Ethylene glycol dimethyl ether  
Ethylene glycol monobutyl ether  
Ethylene glycol monoethyl ether  
Formic acid  
g-Butyrolactone  
g-Caprolactone  
Hexanoic acid  
Isoamyl acetate  
3-Methyl-1-butanol  
Methyl alcohol  
Methyl formate  
Methyl Palmitate  
Methylsalicylate  
N,N-Dimethylformamide  
N-Methylacetamide  
o-Cresol  
Oleic acid  
Propionaldehyde  
Propylene carbonate  
Propylene Glycol  
t-Butyl Acetate  
t-Butyl alcohol  
Tributyl phosphate  
Tributylin  
Trichloroethylene  
Triethanolamine  
Triethyl citrate  
Trioctylamine  
Water  
Xylenes Mixed  
Mineral Oil, light and heavy  
1,10-Decanediol= Decamethylene glycol  
Cetyl alcohol  
Ethylenediamine  
Fumaric acid  
Octylamine  
Sodium benzoate

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Succinic acid  
Hexamethylenetetramine  
Ammonium carbonate  
Distearyl thiodipropionate  
Linoleic Acid  
Monoethanolamine  
Sodium lauryl sulfate  
Phenol  
Ethyl Cellulose  
Polyvidone Insoluble, Polyvinylpyrrolidone  
Caramel  
Starch Modified  
Starch, Potato Starch Acetyl Oxidized  
Calcium Chloride Powder  
Aluminiumsilicate Calcium Sodium  
Iron (III) Oxide, Hematite  
2,2'-Azobis(isobutyronitrile)  
4-Aminobenzoic acid; PABA  
DL-Camphor  
DL-Menthol  
Indole  
L-Menthol  
Nicotinic acid = Niacin  
Potassium Ferricyanide  
Potassium Ferrocyanide  
1,3-Benzenediol  
1,10-Dibromodecane  
1,2-Dibromoethane  
1,2-Dibromopropane  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,4-Butanediol diglycidyl ether  
1,4-Dibromobutane  
1,4-Pentanediol  
1-Bromo-3-chloropropane  
1-Bromobutane  
1-Bromododecane  
1-Bromoheptane  
1-Bromohexane  
1-Chlorohexane  
1-Decanol  
1-Decene  
1-Heptanol  
1-Iodoheptane

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1-Octanol  
2-(Ethylamino)ethanol  
2,2,2-Trifluoroethanol  
2,2'-Dichloroethyl ether  
2,2'-Thiodiethanol  
2,3-Dimethyl-2-butanol  
2-Amino-2-methyl-1-propanol  
2-Bromohexanoic acid  
2-Bromopentane  
2-Chloroethanol  
2-Ethoxyethyl acetate  
2-Mercaptoethanol  
2-Methyl-1-butanol  
2-Methyl-2-butanol  
2-Nitropropane  
3-Acetylpyridine  
3-Chloro-1,2-propanediol  
4-Isopropyltoluene, p-Cymene  
Acetonitrile  
Amyl Acetate  
Benzonitrile  
Benzyl acetate  
Benzyl chloride  
Benzylamine  
Butyl acetate  
Cyclododecene  
Cyclohexane  
Cyclohexene  
Cyclohexylamine  
Cyclohexylmercaptan  
Cyclooctanone  
Cyclopentane  
Cyclopentanol  
Cyclopentanone  
Decane  
Diacetone Alcohol  
Dibutyl sulfide  
Dichloromethane  
Dicyclopentadiene  
Diethylamine  
Diethylene glycol  
Diisobutylketone  
Diisopropyl ether  
Diisopropylamine

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Dodecane  
Epichlorhydrin  
Ethyl benzoate  
Ethyl bromoacetate  
Ethyl butyrate  
Ethyl chloroacetate  
Ethyl cinnamate  
Ethylene glycol monomethyl ether  
Heptadecane  
Heptane  
Isoamyl ether  
Isobutyronitrile  
Methyl benzoate  
Methyl dichloroacetate  
m-Toluidine  
N,N,N',N'-Tetramethylethylenediamine  
N,N-Diethylethanolamine  
N,N-Dimethylacetamide  
Nitrobenzene  
Nitrocyclohexane  
Nitroethane  
Nitromethane  
N-Methylcyclohexylamine  
Nonylphenol  
o-Toluidine  
Phenyl Ether  
Phenyl Isocyanate  
Piperidine  
t-Butylamine  
Dicyandiamide = Cyanoguanidine  
Tetrahydrofurfuryl alcohol  
Guaifenesin  
Acetaminophen  
Atropine sulfate  
Isosorbide 5-Mononitrate  
Acetylcysteine  
Nonanoic acid vanillylamide  
Procaine  
Sodium Dichlorisocyanurate  
Sodium Salicylate  
Sulfanilic acid  
Thymol = 3-p-Cymenol  
L-Glutamic acid  
Bismuth Subnitrate

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Sucrose octaacetate  
Sulfanilamide  
Phosphate Calcium Dibasic, Monetite  
4-Ethyl hydroxybenzoate  
4-Methyl hydroxybenzoate = Methylparaben  
Sorbic Acid  
Benzethonium chloride  
D-Isoascorbic Acid  
3,7-Dimethyl-1,6-octadien-3-yl acetate  
4-Allyl-2-methoxyphenol  
Sulfate Calcium Dihydrate  
Iminodiacetic acid  
Sulfate Sodium Anhydrous  
Meglumine  
2-Propanol  
3-Ethoxy-4-hydroxybenzaldehyde = Ethylvanillin  
Maltol  
Sulfate Manganese  
Dehydroacetic acid  
D-Glucose, 2,3,4,5,6-pentaacetate  
Phosphate Sodium Tribasic Dodecahydrate  
Sulfate Aluminium Potassium Dodecahydrate  
Sulfate Magnesium Heptahydrate  
2-Phenylphenol  
Sulfate Copper Pentahydrate  
Lactic Acid  
2-Bromo-2-nitro-1,3-propanediol  
Sulfate Potassium  
Lactitol  
Acesulfame K  
a-D-Lactose Monohydrate  
(+)-S-Carboxymethyl-L-cysteine  
1,3-Dicyclohexylurea  
2-Aminoisobutyric Acid  
3,4-Dihydroxycinnamic acid= Caffeic acid  
5-Hydroxy-DL-lysine hydrochloride  
Hexadecyl Trimethyl Ammonium Bromide  
Chloramine B hydrate  
D-(+)-Glucosamine .HCl  
D-Glucose 6-phosphate, disodium salt  
DL-2-Aminoadipic acid  
DL-Homocystine  
Flavianic acid hydrate  
Galactaric acid

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Guanidine Hydrochloride  
Heptadecanoic acid  
Heptaldehyde  
L-(+)-Glutamic acid .HCl  
L-Djenkolic Acid  
L-Glutamine  
Limonene  
Methyl-3-aminocrotonate  
p-Anisidine  
Succinamide  
N-t-BOC-L-proline  
N-t-BOC-L-valine  
Calcium D-pantothenate, Vitamin B5  
Dexpanthenol  
1-Dodecanol  
Cinnamyl alcohol  
1-Valeric acid  
1-Undecanol  
b-Pinene  
Isobutylbenzene  
4-Methylmorpholine  
3-Dimethylaminopropylamine  
Thioanisole  
Phenyl isothiocyanate  
Methyl cyanoacetate  
p-Benzoquinone  
2-Pentanone  
3-Mercaptopropionic acid  
3-Chloroaniline  
1,3-Diaminopropane  
Acetylacetone  
N-Decyl aldehyde  
3-(N-Morpholino)propanesulfonic acid; MOPS  
2-Acetylfuran  
Tetramethylene sulfone  
Cyclopentyl bromide  
Ethyl 5-bromovalerate  
Ethyl benzoylformate  
3-(Dimethylamino)propionitrile  
Phenylchloroformate  
1-Ethyl-2-pyrrolidinone  
meso-2,3-Dimercaptosuccinic acid  
2,5-Dimethoxy-2,5-dihydrofuran (cis+ trans)  
2-Fluoroaniline

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Crotonaldehyde  
N-Formylmorpholine  
Epinephrine  
3-Methoxypropylamine  
N-Acetylglycine  
Cystamine dihydrochloride  
3,3'-Diaminodipropylamine  
3-Methyl-2-butanone  
1,1,1-Trichloro-2-methyl-2-propanol  
2-Bromoanisole  
Promethazine hydrochloride  
Iodobenzene  
2-Chloropropionic acid  
1-Ethyl-2-nitrobenzene  
3-Diethylamino-1-propanol  
1-Nitrobutane  
3-Chloro-1-propanol  
1,1,3,3-Tetramethylurea  
1,3-Dioxolane  
Barbituric acid  
Thioglycolic Acid  
trans-1,2-Dibromocyclohexane  
Trichloroacetic acid  
Pinacol  
2-Methyl-1,3-butadiene  
Chloroacetone  
Isobutanoic acid  
Pinene  
2-Bromobutyric acid  
Salicylaldehyde  
Guaiacol  
Veratrole  
Decahydronaphthalene  
N,N-Diethylaniline  
2-Chloroaniline  
o-Chlorophenol  
1,3-Dichloro-2-propanol  
Paraffin wax  
D-(+)-Lactose Powder  
Methyl Cellulose  
Agar with maltose extract  
Amylopectine  
Carboxymethyl cellulose, Na salt  
Carboxymethyl cellulose, Na salt, ultra low viscosity

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Carboxymethylamylopectine Sodium  
Carboxymethylcellulose (Carmellose)  
Casein  
Casein sodium salt  
Cellacefate, Cellulose acetate phthalate  
Cellulose Microcrystalline (Avicel)  
Explotab (Sodium Starch Glycolate)  
Hydroxy propyl distarch phosphate  
Hydroxybutyl Methyl Cellulose  
Hydroxyethyl ether cellulose  
Hydroxymethylcellulose  
Hypromellose (4000)  
Maltodextrin KMS X-50  
Pectine  
Polyvidone 30, Polyvinylpolypyrrolidone  
Starch sodium octenyl succinate  
Macrogol 6000, Poly(ethylene glycol) 6000  
Tripalmitin  
Tween 80, POE (20) sorbitan monooleate  
Ammonium Chloride  
Dibenzoyl peroxide  
Ethylenediaminetetraacetic acid = EDTA  
Iron (III) Oxide Hydroxide  
Methyl stearate  
Pareth 15 (ethoxylated alcohols)  
Plasticizer, Tegosoft EE  
Silica Gel, 70-230 mesh  
Stearamide  
Stearate Zinc  
Surfactant, Sodium Alkyl polyglycol ether sulfate  
Tetrasodium Edetate  
Tween 81, POE (5) sorbitan monooleate  
1-Octacosane  
1-Hydroxy-2-phenoxyethane  
Acetamide  
Benzophenone  
Biphenyl  
Calcium Acetate  
Calcium Diacetate  
Dithionite Sodium  
Hexatriacontane  
Pentaerythritol  
Persulfate Potassium  
Phenylmercuric acetate

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Phosphate Calcium Tribasic  
Phosphate Potassium Dibasic  
Phosphate Sodium Dibasic Dihydrate  
Polyglycerol Polyricinoleate  
Polyglyceryl Oleate  
Potassium Acetate  
Potassium carbonate, sesquihydrate  
Propyl Gallate  
Quinhydrone  
Sodium Acetate  
Sodium Acetate Trihydrate  
Sodium Octanoate  
Sodium Perborate\*4H<sub>2</sub>O  
Sodium Stearyl Fumarate  
Tannic acid  
Thiourea  
Tricalcium Orthophosphate  
Watermelon Ketone  
Zinc acetate dihydrate  
1,3-Butanediol diacetate  
1,3-Propanediol  
1,4-Dioxane  
1-Octadecene  
2-(2-Butoxyethoxy)ethanol  
2-Ethylpiperidine  
3-Hydroxypropionitrile  
Acetone  
Amylamine  
Benzyl Benzoate  
Butyl laurate  
Butyl methacrylate  
D-(-)-Lactic acid  
Diethanolamine  
Diethyl acetylmalonate  
Diethyl ether  
Diisopropyl phosphite  
Dimethylsulfoxide  
DL-Lactic acid  
Dodecyl acetate  
Ethyl acetoacetate  
Ethyl 2-methylacetoacetate  
Formamide  
Isoamyl formate  
m-Cresol

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Mesityl oxide  
o-Xylene  
p-Cresol  
Petroleum ether  
Propargyl alcohol  
Propyl acetate  
p-Toluidine  
Styrene  
Tetrahydrofuran  
Glyceryl triacetate, triacetin  
Triethylamine  
Clove oil  
Maize Oil  
Peanut Oil  
Safflower Oil  
Adipic acid  
Calcium formate  
Oleyl alcohol, Cis-9-octadecen-1-ol  
Sodium butyrate  
Sodium formate  
DL-Lactic acid, Sodium salt  
DL-Malic acid  
D-Mannitol  
D-Sorbitol  
D-Tartaric Acid  
Bergamot Oil  
Beta-cyclodextrin, sulfated sodium salt  
Oil, Caraway oil  
Castor Oil  
Cod-Liver Oil  
Diethyl adipate  
Eucalyptus Oil  
Glyceryl monostearate  
Linseed Oil  
Magnesium carbonate  
Marine fish oil  
Nitrocellulose E-150  
Oil of Pine  
Oil of Thyme  
PEG 400 Monostearate  
Sodium oleate  
Soya Bean Oil  
Trimyristin  
Tritolyl phosphate

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Oil, Yoyoba Oil  
Opadry OY-B-22932 yellow - coating mixture  
Opadry OY-S-8720 orange - coating mixture  
Opaspray (mixture)  
Silicon dioxide  
2,4,6-Collidine  
Gallic acid  
Michler's Ketone  
Piperazine dihydrochloride  
1,2,3,4-Tetrahydronaphthalene  
1,3-Dibromopropane  
1,6-Dibromohexane  
1-Bromonaphthalene  
1-Bromononane  
1-Bromooctane  
1-Chloronaphthalene  
1-Fluoro-2-nitrobenzene  
1-Phenyl-1-propanol  
2,6-Lutidine  
2-Butene-1,4-diol (cis and trans)  
2-Chlorobenzaldehyde  
2-Ethylhexylamine  
2-Hexanol  
2-Picoline  
4-Chlorotoluene  
Acetophenone  
Acetylacetone  
Aniline  
o-Bromostyrene  
Benzyl cyanide  
Cumene  
Cyclooctene  
Dimethyl phthalate  
Ethylbenzene  
Hexamethylphosphoramide  
Indene  
Methyl p-toluenesulfonate  
Nonylamine  
o-Anisidine  
o-Nitrotoluene  
Pyridine  
Dodecylamine  
D-Mannoheptulose  
D-Mannose

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D-Tagatose  
D-Talose  
Cyclohexyl isocyanate  
(1S,2R)-(+)-Ephedrine .HCl  
2-(Dimethylamino)ethyl 4-butylaminobenzoate .HCl  
2-Chloro-4-nitrophenol  
4-Methyl-7-hydroxycoumarin  
5-Aminosalicylic acid  
5-Sulfosalicylic acid  
5-Ureidohydantoin  
Acetazolamide  
Acetophenetidin  
6,9-Diamino-2-ethoxyacridine lactate .H2O  
Alprazolam  
Ambroxol .HCl  
Aminophylline  
Aminopyrine  
Antazoline mesylate  
Antipyrine  
Atenolol  
Azidamfenicol  
Bacitracin Zinc  
Barbital  
Sodium 5,5-diethylbarbiturate  
Benzocaine  
Bisabolol  
Bismuth Tribromophenate  
Bromisovale  
Butamirate citrate  
Caffeine  
Caffeine Citrate  
Caffeine Sodium Benzoate  
Calcium Dobesilate  
Carbaethopendeciniate Bromide  
Chenodeoxycholic Acid  
Chloramphenicol  
Chlorhexidine Digluconate, 20% solution  
Chlorpromazine Chloride  
Chlorprothixene  
Chlorthalidone  
Cinchocaine.HCl  
Ciprofloxacin  
Clopamide  
Codeine Phosphate

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Dexamethasone Acetate  
Diaveridine  
Diclofenac Sodium  
Digoxin  
Dihydroxypropyladenine (DHPA)  
Diltiazem Hydrochloride  
Dipyrrone  
Dithiaden  
Dithranole  
Dopamine  
Dosulepine  
Doxycycline  
Epinephrine Bitartrate  
Ergotamine Tartrate  
Esculin  
Ethyl Biscoumacetate  
Famotidine  
Fenofibrate  
Fenpiverinium bromide  
Flunitrazepam  
Potassium guaiacol sulphonate  
Homatropine hydrobromide  
Hydrocortisone Acetate  
Hydroxyamphetamine hydrobromide  
Ibuprofen  
Indapamide  
Indomethacin  
Ioxitalamic Acid  
Kebuzone  
Mephenoxalone  
Metronidazole  
N-Acetyl-L-tyrosine  
Naftidrofuryl oxalate  
Nitrofurantoin  
Ornidazole  
Oxiconazole Nitrate  
Papaverine hydrochloride  
Phenobarbital  
Phenobarbital Sodium  
Phenylephrine hydrochloride  
Phthalylsulfathiazol  
Pilocarpine  
Pilocarpine Hydrochloride  
Piroxicam

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Pitofenone Hydrochloride  
Prazosin Hydrochloride  
Propafenone  
Propyphenazone  
Quinidine Hydrochloride, Monohydrate  
Quinidine Sulfate  
Quinine Hydrochloride  
Quinine Sulfate Dihydrate  
Ranitidine Hydrochloride  
Reserpine  
Roxithromycine  
Rutine Sodium Sulfate  
Rutoside  
Silver Albumin Acetyl Tannate  
Silver Albumin Acetyl Tannate with Borax  
Sulfamethazine  
Sulfathiazole  
Sulpiride  
Tetracycline Hydrochloride  
Theophylline = 1,3-Dimethylxanthine  
Thioridazine  
Tiaprofenic Acid  
Triamcinolone Acetonide  
Tridecanamine Undecylenate  
Trimecain Chloride  
Trimethoprim  
Troloxerutine  
Amitriptyline hydrochloride  
Ursodeoxycholic Acid  
Valerianae Dry Extract  
Verapamil .HCl  
Viprynum Embonate  
Xanthinol Nicotinate  
Yohimbine .HCl  
Zinc Undecylenate  
Sodium-L-Glutamate  
Ammonium Citrate Dibasic  
Ammonium Citrate Tribasic  
Ammonium ferric citrate green  
Ammonium hydrogentartrate  
Sodium Citrate  
Sulfate Aluminum Ammonium Dodecahydrate  
Glucono-delta-lactone  
Tripotassium Citrate Monohydrate

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Mannitol  
Potassium Sorbate  
Propylparaben  
Sodium propionate  
Thimerosal  
Cetylpyridinium chloride monohydrate  
Dipotassium tartrate  
Disodium Citrate  
Disodium tartrate, dihydrate  
Monosodium Citrate Anhydrous  
Monosodium tartrate  
Sodium Potassium Tartrate  
Tripotassium Citrate  
Sodium Citrate Dihydrate  
Sodium Citrate Dihydrate  
Magnesium lactate  
Basic Green 1 | Brilliant Green  
Oil, Coriander Oil  
Lemon Oil Type 2  
Sassafras Oil  
Bismuth Gallate Basic  
Calcium L-Lactate  
D-Gluconic acid, hemicalcium salt  
Oil, Cinnamon Oil  
Myrrh Oil Type B  
Disodium edetate dihydrate  
Methocel K15  
Gelatin  
Acid Red 103  
Food Red 9 | Amaranth  
Amaranth  
Ammonia caramel  
Annatto bixin norbixin, liquid in PG  
Food Black 1 | Brilliant Black BN  
Brilliant Blue FCF  
Food Brown 3 | Chocolate brown HT  
Capsanthin, in oil  
Carminic Acid  
Carmoisine B  
Caustic sulfite caramel  
FD&C Blue 1, Brilliant Blue FCF  
Flavine Acide Brill.  
Food Green 4, Acid Green 50 | Green S  
Guanine

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Benzopurpurin 4B  
Acid Blue 1 | Triacid Blue V  
Ponceau 4R, Cochineal Red A, Brilliant Scarlet 4R  
Food Red 8 | Ponceau 6R  
Food Red 1 | Ponceau SX  
Acid Red 33, CI 17200  
Red 2G, Acid Red 1  
Sulfite ammonia caramel  
Algol red  
Beetroot Red, Betanin, with starch  
Enocyanine  
FD&C Yellow 6 Aluminium Lake  
Food Red 17 | Allura Red AC  
Erythrosin B  
FD&C Blue 2, Indigo carmine, Indigotine  
Sunset yellow FCF  
FD&C Yellow 5, Tartrazine  
Solvent Yellow 94 | Fluorescein  
2,4,6-Trihydroxy-1,3,5-triazine  
Cholesterol  
L-a-Phosphatidylcholine from turkey egg yolk  
Emulsifier E 2149, Stearyl Alcohol and Esters Mixture  
Quillaja Saponin  
Glycerin  
Tween 20, POE (20) sorbitan monolaurate  
D-(-)-Fructose  
DL-Monosodium glutamate  
Maize starch extract  
Sucrose  
L-Sorbitol  
Sodium Picosulfate  
L-Glucose  
Magnesium Citrate  
Sulfate Zinc Heptahydrate  
a-Cyclodextrin hydrate  
Ammonium Benzoate  
Ammonium Citrate Monobasic  
Ammonium-D-gluconate  
Calcium Chloride Powder  
D-Galactose  
Dulcitol  
L-(-)-Xylose  
L-Arabitol  
Magnesium Formate

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Maltose  
Sulfate Aluminium Octadecahydrate  
Sulfate Sodium Monobasic monohydrate  
Sodium Gluconate  
Neohesperidine dihydrochalcone  
Saccharin Sodium Dihydrate  
Saccharin Sodium  
Sodium cyclamate  
Xylitol  
D-(+)-Lactose, Monohydrate  
3-Ethyl-3-methylglutaric acid  
4-Aminobutyric acid  
a-Chloralose  
Adenine  
Adonitol  
Ammonium Tartrate  
Bilirubin  
Bismuth Subsalicylate  
Borneol  
Brilliant Yellow  
Calcium Lactobionate  
Chloramine T  
Choline Bitartrate  
D-(-)-Ribose  
D-(+)-Fucose  
D(+)-Raffinose pentahydrate  
D-(+)-Xylose  
D-Arabinose  
Deoxycholic acid; sodium salt monohydrate  
D-glycero-D-talo-heptitol= Volemitol  
DL-DOPA = 3-(3;4-dihydroxyphenyl)- DL-alanine  
DL-Isocitric acid trisodium  
Erythritol  
Glycocholic acid  
Guanidine carbonate  
Guanidineacetic acid  
L-(-)-Sorbitol  
L-Carnosine  
L-Rhamnose  
Neo Dragocid Liquid (mixture)  
Neostigmine methyl sulfate  
Potassium formate  
Potassium oxalate monohydrate  
Adonitol

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Sitosterol  
Sodium Glucuronate  
Sodium glutarate  
Sodium glycocholate  
Sodium L-Malate  
Sodium succinate  
trans-Cinnamaldehyde  
Uracil  
Zinc lactate  
Boc-L-Tryptophan  
N-(tert-butoxycarbonyl)-L-norvaline dicyclohexylammonium  
a-Tocopheryl acetate hydrate  
Calcium DL-pantothenate  
Cyanocobalamine (Vitamin B12)  
DL-a-Tocopherol, Vitamin E  
Ergosterol, Provitamin D  
Folic Acid (Vitamin B11)  
Menadione, Vitamin K3  
3-Pyridinecarboxamide  
Phytonadione, Vitamin K1  
Pyridoxine, Vitamine B6  
Riboflavin  
Thiamine hydrochloride (Vitamin B1)  
Thiamine chloride  
Betacare  
Ascorbyl Palmitate  
Dibenzosuberone  
DL-Citronellol  
Cineole  
m-Anisidine  
Quinoline Yellow Lake  
Phenylhydrazine  
3,5-Di-tert-butylcatechol  
Glybenclamide  
Maprotiline  
Levetiracetam  
D-(-)-Arabinose  
Ethylaniline  
Lacidipine  
Oxalate Iron dihydrate  
5-Ethyl-2-methylpyridine  
Ethyl cyanoacetate  
Risperidone Hydrochloride Hemipentahydrate  
Taurine = 2-Aminoethanesulfonic acid

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Beta Alanine  
2,4-Lutidine  
2-Bromopyridine  
Thiophene  
Quetiapine Fumarate  
4-Acetylpyridine  
[5-[[4-[2-(5-Ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-2,4-] thiazolidinedione hydrochloride  
Letrozole  
S(+)-Bicalutamide  
R(-)-Bicalutamide  
Scopolamine .HBr  
Isoquinoline  
2-[(1-Benzyl-4-piperidyl)methyl]-5,6-dimethoxy-2,3-dihydroinden-1-one  
3-tert-butyl-4-hydroxyanisole  
N,N-Dimethylaniline  
Malonaldehyde bis(diethyl acetal)  
Benzalacetone  
P-Aminophenol  
N-Isobutyryl-L-Cysteine  
Losartan Potassium  
Cholestane-3b,5a,6b-triol  
Patent Blue V  
Aripiprazole  
Quinine  
5-Hydroxyindole-3-acetic acid  
Olanzapine  
N-alpha-(2,4-Dinitro-5-fluorophenyl)-L-valinamide  
N-Methyl-gama-(1-naphthalenyloxy)-2-thiophenepropanamine  
Tolfenamic Acid  
Cetrimonium Tosylate  
Eszopiclone  
Bacitracin  
2,3,4,6-Tetra-O-acetyl-beta-D-glucopyranosyl isothiocyanate  
4'-Hydroxyphenyl-Carvedilol  
5'-Hydroxyphenyl-Carvedilol  
Dextrorphan-D-Tartrate  
Telmisartan  
5-Pregnen-3b-Ol-20-On  
Riboflavin-5'-Phosphate  
3-Acetylthiophene  
Rosuvastatin calcium  
2-(Methylsulfonyl)ethanol  
Diclofenac potassium  
Catechin

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Rosiglitazone Maleate  
p-Phenetidine  
Raloxifene-6'-D-glucuronide  
4-Amino-3-hydrazino-1,2,4-triazol-5-thiol  
Metolazone  
Gatifloxacin Sesquihydrate  
5-Chlorouracil  
6-Piperidinopurine  
Trazodone HCl  
3-Methoxy-L-tyrosine monohydrate  
1-Phenyl-1-Butanol  
Hydrobromothiazide  
DL-Dithiothreitol  
Cinnarizine  
Sparteine sulfate  
DL-Serine  
Clomipramine  
Ibuprofen Sodium  
D-Serine  
Propranolol Hydrochloride  
Beta-Alanine methyl ester hydrochloride  
D-Isoleucine  
Adenine Sulfate  
L-Norleucine  
Dansyl Hydrazine  
Trans-4-Hydroxy-D-proline  
Acebutolol Hydrochloride  
Dansyl Fluoride  
Isoxicam  
(+)-alpha-Dihydratetrabenazine  
Cholesteryl stearate  
Carmoisine, Azorubine  
Fenbufen  
Heptafluorobutyric Acid  
Imidazolidinyl urea  
Memantine hydrochloride  
N-(4-Aminobenzoyl)-L-glutamic acid  
Ajmaline  
2-Bromomethyl-1,3-dioxolane  
6-Methylaminopurine  
4-Fluorobenzaldehyde  
6-Azauracil  
Naloxone  
Morin=2',3,4',5,7- Pentahydroxyflavone

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Bicuculline  
Lepidine  
Furil  
Cefadroxil  
2-Thiobarbituric acid  
2-Oxazolidinone-5-Spiro-4'-[N-(2-Phenylethyl)Piperidine] Hydrochloride  
Cefaloridine  
Chloroquine Diphosphate  
Thymidine  
DL-Valine  
Diosmetin  
Orange GGN, Acid Orange 20, alpha-Naphthol Orange  
5-a-Androstane-3-a-ol-17-one  
Dehydroisoandrosterone  
Pridinol Mesylate  
Carprofen  
Camphoric acid  
Ethyl levulinate  
Cefaclor  
3-(N-Methylpyrrolidino)pyridine  
Nicardipine .HCl  
3,3\*,5,5\*-Tetramethylbenzidine  
4-Pyridinecarboxylic acid hydrazide  
Disodium 5-Guanylate  
L-Methyldopa  
Chlorhexidine  
DL-Tyrosine  
Cacotheline  
Cefuroxime Sodium  
Tibolone  
Metoprolol Tartrate  
Dabsyl Chloride  
Histamine Dihydrochloride  
Tricine  
Tetrabenazine  
Papaverine  
4-Methylcyclohexanone  
Acyclovir  
DL-Amphetamine sulfate  
7-(Beta-Hydroxypropyl)Theophylline  
2,3-Dimethylbenzoic Acid  
Cholesteryl Acetate  
Methyl Furoate  
Quinine Hydrochloride Dihydrate

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Amoxicillin  
Trehalose dihydrate  
Cloxacillin  
Hordenine Sulfate  
Ethyl Methanesulfonate  
Captopril  
D-Threonine  
Yellow 2G  
2,5-Dimethylthiophene  
Meclofenamic Acid  
Cefotaxime sodium  
Tolbutamide  
Hydroxy Pentoxifylline  
1-(3-Carboxypropyl)-3,7-Dimethylxanthine  
Nicotine Hydrogen Tartrate  
Cytidine  
L-Norvaline  
Amantadine .HCl  
Oxacillin  
Pridinol Methanesulfonate Anhydrous  
N,N-Diethylacetamide  
Hypoxanthine  
Ampicillin sodium  
Ampicillin  
5-Iodouracil  
Xanthine  
2,4-Dinitrofluorobenzene  
Meloxicam  
Cytosine  
Lincomycin Hcl  
Beta-Arthemeter  
Lovastatin  
Enalapril Maleate  
Methoxyflurane  
Enalaprilat  
Butobarbital  
(1S)-(-)- $\alpha$ -Pinene  
Paroxetine.HCl  
Isobutylbromide  
1,1,2,2-Tetrachloroethane  
Cefixime  
Cefpodoxime  
Tamsulosin hydrochloride  
Dihydrocholesterol

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Dehydrocholic acid  
Cholic acid  
Warfarine  
Oxfloxacin  
Quinapril Hydrochloride  
Raloxifene Hydrochloride  
Theobromine  
5,7-Diiodo-8-hydroxyquinoline  
Cetirizine Hydrochloride  
Sibutramine Hydrochloride  
Decafluorobenzophenone  
L-Cysteine ethyl ester hydrochloride  
4,7-Dichloroquinoline  
2-Chloroethylamine hydrochloride  
Cefpodoxim Proxetil  
N-Acetyl-DL-Tryptophan  
Ramipril  
2-Acetylthiophene  
2,6-Di-tert-butyl-(dimethylaminomethyl)phenol  
2-Isopropylidene-5-methylcyclohexanone  
Cholesteryl Chloride  
Noscapine hydrochloride  
Ropinirole hydrochloride  
Isatin  
3,4-Dimethoxybenzyl alcohol  
6-Azathymine  
(3,4-Dimethoxyphenyl)acetic acid  
Venlafaxine Base  
N-Cyclohexyl-2-benzothiazolesulfenamide  
Marfey's reagent  
Eplerenone Hydroxyacid Potassium Salt  
N-Acetyl-L-valine  
2-Furaldehyde  
Metoprolol Succinate  
Picolinic acid  
3-Hydroxybenzoic acid  
Ondansetron  
(+)-Hydroxymethyl tolterodine S-(+)- mandelate  
17-carboxybudesonide  
2-Methylhydrochlorothiazid  
4-Fluorobenzenesulfonate Sodium Salt  
Desethoxytamsulosin  
Dihydroisoandrosterone  
Ethyl 4-Fluorobenzenesulfinate

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Fingophosphate Racemate  
Isopropyl 4-Fluorobenzenesulfinate  
Methylpioglitazone  
O-Demethyl Tramadol  
Pyrethoxy pioglitazone  
Simvacid Ammonium  
Venlafaxine Besylate Monohydrate  
Venlaphenol  
Amitriptyline  
Potassium nitrite  
Raloxifene-4'-glucuronide  
Doxifluridine  
Bisoprolol Fumarate  
Budesonide  
Capecitabine  
Eplerenone  
Fingolimod hydrochloride  
Hydroxy Pioglitazone (M-IV)  
Imatinib  
Levocetirizine dihydrochloride  
1-(2-Hydroxyethyl)-2-Hydroxymethyl-5-Nitroimidazole  
Alendronate Sodium  
Cialis  
Paliperidone  
Dehydro Aripiprazole  
Atomoxetine hydrochloride  
Dihydroxydecarbama capecitabine  
Donepezil Hydrochloride  
Escitalopram oxalate  
Exemestane  
Gliclazide  
5-[[4-[2-(5-Acetyl-2-Pyridinyl)Ethoxy]Phenyl]Methyl]-2,4-Thiazolidinedione  
Olanzapine Benzoate  
Phenolthiadione  
Pramipexole  
Pyrhydroxy pioglitazone  
Pyrketopioglitazone  
Rivastigmine Tartrate  
Zopiclone  
Acamprosate Calcium  
Amlodipin Besylate  
Amlodipine Maleate  
Carvedilol  
Gliquidone

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Lovacid Ammonium Salt  
Moclobemide  
Paroxdione  
Paroxetine  
Paroxetine Mesylate  
Ramiprilat  
Ribavirin  
Simvastatin  
Tolterodine Tartrate  
Trazodone hydrochloride  
Venlafaxine Hydrochloride  
Hexachloroplatinic (IV) acid hexahydrate  
Atropine  
Fenoterol Hydrobromide  
Ketoprofen  
Metoclopramide Hydrochloride  
Nifedipine  
Piracetam  
Tiapride Hydrochloride  
Tolazoline Hydrochloride  
Trihexyphenidyl Hydrochloride  
3,4-Dimethylbenzoic Acid  
Flurbiprofen  
Ethosuximide  
Citalopram Hydrobromide  
Fenoprofen  
Irbesartan  
Hydroxyzine Dihydrochloride  
Pentoxifylline  
Naproxen  
8-Chlorotheophylline  
Glipizide  
(R)-(+)-Desmethyisibutramine HCl  
Lansoprazole  
Donepezil HCl  
Levofloxacin  
Clavulanate Potassium  
Sulfadimethoxine  
2-(2,4,5-Trichlorophenoxy)Propionic Acid  
Ticlopidine Hydrochloride  
Heparine 500000 Units  
Bicalutamide  
Itraconazole  
Fluconazole

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Lamotrigine  
Hesperetin  
3alpha-hydroxytibolone  
Zolpidem Tartrate  
Risedronate Sodium  
Tenoxicam  
Sulfamethizole  
Quetiapine  
Sumatriptan Succinate  
Moxifloxacin HCl  
Ketoconazole  
Phenytoin (5,5-Diphenylhydantoin)  
Tranexamic Acid  
Quillaia extract  
Thaumatococcus  
Quinoline Yellow  
Brown FK Kipper Brown  
Furcelleran  
Brown HT Chocolate brown HT, in mixture  
FD&C Blue 2, Indigo carmine, Indigotine  
Pigment Rubine, Lithol Rubine BK  
Copper complexes of chlorophyllins and chlorophylls  
Sodium potassium and calcium salts of fatty acids  
Sulfite ammonia caramel, in mixture  
Fast Yellow AB

## List of Spectra /CAS Numbers

10016-20-3  
100208-62-6  
100239-44-9  
10028-24-7  
10034-88-5  
10034-99-8  
10035-04-8  
100-37-8  
10040-45-6  
100-41-4  
100-42-5  
10043-01-3  
10043-52-4  
10043-52-4

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100-44-7  
100-46-9  
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100-60-7  
100-63-0  
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100-97-0  
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10262-69-8  
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104-90-5  
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105-34-0  
105-36-2  
105-39-5  
10544-63-5

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105-53-3  
105-54-4  
105-56-6  
105-60-2  
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106-22-9  
106266-06-2  
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106-49-0  
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106-65-0  
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107-19-7  
107-21-1  
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107-35-7  
107724-20-9  
107-81-3  
107868-30-4  
107-87-9  
107-88-0  
107-95-9  
107-96-0  
108-01-0  
108-10-1  
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108-39-4  
108-42-9  
108-44-1  
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108-47-4  
108-48-5  
108-75-8

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108-80-5  
108-83-8  
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109-65-9  
109-70-6  
109-76-2  
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109-94-4  
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11092-32-3  
11099-07-3

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111-15-9  
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1984-06-1  
200630-46-2  
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28940-11-6

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