

## USP Reference Standards Tables

Below are several tables with the latest USP Reference Standard (RS) information for the month of **June (2020)**. For the most up-to-date information, visit the online [USP store](#) which is updated daily. USP recommends referring to the store prior to using a USP RS to assure the lot remains valid for use and to obtain the most up-to-date USP Certificate and Safety Data Sheet.

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**AN IMPORTANT VALID USE DATE NOTIFICATION:** As noted in the RS Tables sent in [March](#), a Valid Use Date (VUD) of 31July2020 had been assigned to various current and previous lots as a result of revisions to USP General Chapter <11> and the General Notices which were originally scheduled to become official on August 1, 2020. This official date has since been extended to November 1, 2020. [Click here](#) to read the Compendial Notice. As a result, the VUD of the impacted lots was previously extended to 31October2020. Refer to [this table](#) for a list of RS's impacted by the upcoming changes. As always, be sure to check the validity of a lot in the online [USP store](#) prior to purchase and use.

Since last month's newsletter, one addition has been made to this table – USP 3-Amino-2,4,6-triiodobenzoic Acid RS. Moreover, USP Isosorbide (75% solution, 1 g) RS catalog #1352008 has been removed from the list and the assigned Valid Use Date has been removed from current lot I. This RS was assigned a VUD of 31Oct2020 in error. [Click here](#) to view this RS in the USP store.

**DON'T FORGET:** Be sure to review the Not Yet Official versions of General Chapter <11> *USP Reference Standards* and the General Notices which were posted in the USP-NF Online publication on February 1. They will become official on November 1, 2020.

Previous months' tables can be viewed on our [website](#). [Click here](#) to learn about additional newsletters available to stay up to date on other USP offerings and programs such as education and training, monograph modernization, and compendial updates.

**USP strongly suggests downloading the [FREE Reference Standards and Resources APP](#) on your phone or tablet. The APP allows you to easily track lot changeovers by opting in to receive push notifications only for the USP RS's of interest.**

Please visit the [USP store](#) to place an order online. You may also contact Customer Service at [custsvc@usp.org](mailto:custsvc@usp.org) or 1-800-227-8772. Please contact [rstech@usp.org](mailto:rstech@usp.org) for all other support related to USP RS's.

## Never-Before-Released USP RS's – Now Available

Catalog #	Description	Current Lot	Availability Date
1241608	Erlotinib Hydrochloride (150 mg)	F131M0	15-May-20
1268819	Etoposide Phosphate (200 mg)	F118Y0	1-May-20
1479202	Gamma-Oryzanol (50 mg)	F126K0	28-May-20
1288667	Gemifloxacin Mesylate (300 mg)	F130A0	4-Jun-20
1445437	Molindone Related Compound A (20 mg) (3-Ethyl-2-methyl-1,5,6,7-tetrahydro-4H-indol-4-one)	F13340	18-May-20
1449722	Nadolol Related Compound B (25 mg) ((2RS,3SR)-5-(2-Hydroxy-3-methoxypropoxy)-1,2,3,4-tetrahydronaphthalene-2,3-diol)	F122T0	5-May-20
1449777	Nadolol Related Compound G (25 mg) (1-(tert-Butylamino)-3-(5,6,7,8-tetrahydronaphthalen-1-yloxy)propan-2-ol)	F122W0	19-May-20
1460317	Nepafenac (200 mg)	F128S0	27-May-20
1548087	Ponceau 4R (50 mg)	F120U0	19-May-20
1614374	Sodium Lauroyl Sarcosinate (150 mg)	F122F0	18-May-20
1652012	Tetrahydrozoline Related Compound A (50 mg) (1,2,3,4-Tetrahydronaphthalene-1-carbonitrile)	F121E0	2-Jun-20
1652034	Tetrahydrozoline Related Compound C (25 mg) (1,2,3,4-Tetrahydronaphthalene-1-carboxylic acid)	F121G0	5-May-20
1445539	USP mAb 001, Monoclonal IgG1 (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	F11920	27-May-20
1445547	USP mAb 002, Monoclonal IgG1 (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	F12970	26-May-20
1445595	USP mAb 003, Monoclonal IgG1 (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	F12980	26-May-20

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## Existing USP RS's with New Current Lots

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1076261	3-Acetyl-11-Keto-Beta-Boswellic Acid (20 mg)	R128E0	F0J011 (31-Mar-21)
1008501	Acetylcholine Chloride (200 mg)	R124K0	R023K0 (28-Feb-21)
1035708	Anhydrotetracycline Hydrochloride (25 mg) ((4S,4aS,12aS)-4-(Dimethylamino)-3,10,11,12a-tetrahydroxy-6-methyl-1,12-dioxo-1,4,4a,5,12,12a-hexahydrotetracene-2-carboxamide monohydrochloride)	R117X0	R07100 (31-May-21)
1042270	Arachidyl Alcohol (125 mg)	R101M0	F001A0 (31-Mar-21)
1044470	Atomoxetine Related Compound A (10 mg) (3-(Methylamino)-1-phenylpropan-1-ol)	R12960	F0J401 (31-Jan-21)
1044662	Atovaquone Related Compound A (25 mg) (cis-2-[4-(4-Chlorophenyl)cyclohexyl]-3-hydroxy-1,4-naphthoquinone)	R123R0	F0B188 (31-May-21)
1086436	Calcium Chloride (1 g)	R113W0	F0D153 (31-Dec-20)
1096655	Carvedilol Related Compound C (20 mg) (1-(9H-Carbazol-4-yloxy)-3-(benzyl(2-(2-methoxyphenoxy)ethyl)amino)propan-2-ol)	R038F1	R038F0 (31-May-21)
1118328	Chloroquine Related Compound A (15 mg) (4,7-dichloroquinoline)	F0J201	F0J200 (30-Apr-21)
1131960	Cholesterol (125 mg)	R112K0	R062D0 (30-Apr-21)

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1134051	Cilastatin Ammonium Salt (100 mg)	R12300	R012Y0 (31-Mar-21)
1134200	Cladribine (200 mg)	R108Y0	R038Q0 (30-Apr-21)
1140509	Clorazepate Dipotassium CIV (125 mg)	R124B0	G1F159 (30-Sep-20)
1197018	Diethyltoluamide Related Compound A (25 mg) (N,N-Diethyl-4-toluamide)	R130J0	F004N0 (28-Feb-21)
1199308	Diglycine (50 mg) (glycylglycine)	F077F1	F077F0 (31-May-21)
1200600	Dihydrocapsaicin (25 mg)	R119A0	R061D0 (30-Jun-21)
1224201	Divalproex Sodium (200 mg)	R080D0	R01500 (30-Jun-21)
1224507	Dobutamine Hydrochloride (400 mg)	I1L492	I0L492 (30-Jun-21)
1225292	Dorzolamide Hydrochloride Related Compound A (20 mg) ((4R,6R)-4-(ethylamino)-5,6-dihydro-6-methyl-4H-thieno[2,3-b]thiopyran-2-sulfonamide-7,7-dioxide, monohydrochloride)	R12510	R054K0 (31-May-21)
1231637	Ecamsule Related Compound C (50 mg) (terephthalic acid)	R128X0	F0H408 (30-Jun-21)
1251000	Estradiol Benzoate (250 mg)	R111H0	H2L542 (31-Mar-21)
1255861	Eszopiclone Related Compound A (10 mg) (6-(5-Chloropyridin-2-yl)-7-oxo-6,7-dihydro-5H-pyrrolo [3,4,b] pyrazin-5-yl 4-methylpiperazine-1-carboxylate 4-oxide)	R12080	F1L285 (31-Mar-21)
1268604	Etidronic Acid Monohydrate (1 g)	R106W0	G1G218 (28-Feb-21)
1269323	Felbamate Related Compound A (25 mg) (3-Hydroxy-2-phenylpropyl carbamate)	F1K170	F0K170 (31-May-21)
1285002	Flurazepam Hydrochloride CIV (200 mg)	R114P0	R005A0 (30-Nov-20)
1295800	Glycine (200 mg)	R13260	H1L015 (31-May-21)
1305303	Hexacosanol (100 mg)	R128T0	F0F131 (30-Jun-20)
1327000	Hydroxychloroquine Sulfate (200 mg)	R143N0	R052K0 (31-May-21)
1329006	Hydroxyprogesterone Caproate (200 mg)	R111B0	R058T0 (31-May-21)
1347700	Irbesartan (200 mg)	R11500	R022G0 (30-Apr-21)
1356891	Lauryl Alcohol (125 mg)	R107J0	F027C0 (31-May-21)
1179344	Levomedetomidine ((R)-4-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole hydrochloride) (25 mg)	R128Y0	R03120 (31-Mar-21)
1372061	Lysophosphatidylcholine (Soy) (40 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	R12000	R042M0 (28-Feb-21)
1379401	Meloxicam (400 mg)	R11690	R02670 (31-Mar-21)
1430327	Methyl Linoleate (5 x 50 mg)	R12890	R094E0 (30-Jun-21)
1448606	Moxifloxacin Hydrochloride (200 mg)	R118L0	R03640 (31-May-21)
1450404	Naftifine Hydrochloride (200 mg)	R112X0	R003L0 (28-Feb-21)
1473002	Noroxymorphone Hydrochloride CII (50 mg) (4,5alpha-Epoxy-3,14-dihydroxymorphinan-6-one hydrochloride)	R133E0	H1C177 (31-Mar-21)
1491354	Paclitaxel Related Compound B (20 mg) (10-deacetyl-7-epipaclitaxel)	R135J0	R035U0 (31-May-21)
1492255	Palonosetron Related Compound D (15 mg) ((3aR)-2-[(3S)-Quinuclidin-3-yl]-2,3,3a,4,5,6-hexahydro-1H-benzo[de]isoquinolin-1-one hydrochloride)	R13580	F02790 (29-Feb-20)
1494057	Pancreatin Amylase and Protease (2 g) (COLD SHIPMENT REQUIRED)	R117L0	J0J108 (31-Mar-21)
1557000	Prednisolone Sodium Phosphate (500 mg)	R125K0	G0L556 (30-Apr-21)
1568040	Proguanil Hydrochloride (200 mg)	R11870	F0H119 (31-Mar-21)
1605523	Ropivacaine Related Compound B (50 mg) ((R)-N-(2,6-Dimethylphenyl)-1-propylpiperidine-2-carboxamide hydrochloride monohydrate)	R131R0	R012W0 (31-Dec-20)
1612539	Sertraline Hydrochloride (100 mg)	R118W0	R050W0 (30-Apr-21)

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1619006	Spironolactone (125 mg)	R12280	L0L557 (31-Mar-21)
1667924	Tizanidine Related Compound B (50 mg) (N-acetyltizanidine)	R121N0	F0F223 (30-Apr-21)
1672905	Tranlycypromine Sulfate (125 mg)	R110N0	G0I287 (31-Mar-21)
1675007	Triacetin (1 g)	R124G0	H3H083 (31-May-21)
1720600	Xylitol (1 g)	R124H0	R022C0 (30-Apr-21)

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## Previously Unavailable USP RS's – Now Available

Catalog #	Description	Current Lot
1076261	3-Acetyl-11-Keto-Beta-Boswellic Acid (20 mg)	R128E0
1008501	Acetylcholine Chloride (200 mg)	R124K0
1042270	Arachidyl Alcohol (125 mg)	R101M0
1044470	Atomoxetine Related Compound A (10 mg) (3-(Methylamino)-1-phenylpropan-1-ol)	R12960
1086436	Calcium Chloride (1 g)	R113W0
1118328	Chloroquine Related Compound A (15 mg) (4,7-dichloroquinoline)	F0J201
1131960	Cholesterol (125 mg)	R112K0
1134051	Cilastatin Ammonium Salt (100 mg)	R12300
1197018	Diethyltoluamide Related Compound A (25 mg) (N,N-Diethyl-4-toluamide)	R130J0
1251000	Estradiol Benzoate (250 mg)	R111H0
1255861	Eszopiclone Related Compound A (10 mg) (6-(5-Chloropyridin-2-yl)-7-oxo-6,7-dihydro-5H-pyrrolo [3,4,b] pyrazin-5-yl 4-methylpiperazine-1-carboxylate 4-oxide)	R12080
1268604	Etidronic Acid Monohydrate (1 g)	R106W0
1285002	Flurazepam Hydrochloride CIV (200 mg)	R114P0
1305303	Hexacosanol (100 mg)	R128T0
1347700	Irbesartan (200 mg)	R11500
1179344	Levomedetomidine ((R)-4-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole hydrochloride) (25 mg)	R128Y0
1372061	Lysophosphatidylcholine (Soy) (40 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	R12000
1379401	Meloxicam (400 mg)	R11690
1450404	Naftifine Hydrochloride (200 mg)	R112X0
1473002	Noroxymorphone Hydrochloride CII (50 mg) (4,5alpha-Epoxy-3,14-dihydroxymorphinan-6-one hydrochloride)	R133E0
1494057	Pancreatin Amylase and Protease (2 g) (COLD SHIPMENT REQUIRED)	R117L0
1557000	Prednisolone Sodium Phosphate (500 mg)	R125K0
1568040	Proguanil Hydrochloride (200 mg)	R11870
1605523	Ropivacaine Related Compound B (50 mg) ((R)-N-(2,6-Dimethylphenyl)-1-propylpiperidine-2-carboxamide hydrochloride monohydrate)	R131R0
1612539	Sertraline Hydrochloride (100 mg)	R118W0
1619006	Spironolactone (125 mg)	R12280

Catalog #	Description	Current Lot
1667924	Tizanidine Related Compound B (50 mg) (N-acetyltizanidine)	R121N0
1672905	Tranlycypromine Sulfate (125 mg)	R110N0
1720600	Xylitol (1 g)	R124H0

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## USP RS's Backorder Availability Report\*

Catalog #	Description	Estimated Availability Date (as of 03Jun2020)
1666006	(E)-Thiothixene (100 mg)	2020-Q4
1000532	Acarbose System Suitability Mixture (2 mg) (COLD SHIPMENT REQUIRED)	2020-Q4
1002811	Acetaldehyde (3 x 1.1 mL)	2020-Q4
1011018	Acitretin Related Compound A (20 mg) ((2Z,4E,6E,8E)-9-(4-Methoxy-2,3,6-trimethylphenyl)-3,7-dimethylnona-2,4,6,8-tetraenoic acid)	2020-Q2
1667803	Alpha Tocopheryl Acid Succinate (250 mg) (Vitamin E Succinate)	2020-Q3
1020008	Aminobutanol (500 mg) (1-Butanol, 2-amino-, (+/-)-)	2020-Q4
1026401	Aminosalicylic Acid (125 mg)	TBD
1031616	Amoxicillin Related Compound H (15 mg) ((R)-2-(4-hydroxyphenyl)-2-pivalamidoacetic acid)	2020-Q2
1041609	Apraclonidine Hydrochloride (100 mg)	2020-Q3
1044210	Astaxanthin Esters from Haematococcus pluvialis (5 x 100 mg)	2020-Q4
1048233	Bacoside A3 (15 mg)	2020-Q3
1048619	Benazepril Hydrochloride (125 mg)	2020-Q2
1065298	Bendamustine Related Compound G (20 mg) (4-[6-(2-Chloroethyl)-3,6,7,8-tetrahydro-3-methylimidazo[4,5-h][1,4]benzothiazin-2-yl]butanoic acid hydrochloride)	2020-Q3
1065550	Betadex Sulfobutyl Ether Sodium (500 mg)	2020-Q3
1076385	Brinzolamide Related Compound B (50 mg) ((R)-4-Amino-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide oxalate)	2020-Q3
1086039	Caftaric Acid (20 mg)	2020-Q3
1096529	Carglumic Acid Related Compound B (30 mg) ((S)-2,7-dioxo-1,3-diazepane-4-carboxylic acid)	N/A
1130710	CHO Genomic DNA (30 ng/uL, 20 uL per vial) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	2020-Q3
1134357	Cisplatin (100 mg)	2020-Q3
1150115	Cosyntropin Acetate (1.69 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED) (alpha1-24-Corticotropin)	2020-Q4
1150353	Creatinine (100 mg) (2-Imino-1-methylimidazolidin-4-one)	2020-Q4
1173202	Desmopressin Acetate (2.01 mg) (COLD SHIPMENT REQUIRED)	2020-Q3
1174001	Desoxycorticosterone Acetate (200 mg)	2020-Q4
1551128	Dibasic Potassium Phosphate (5 g) (AS)	2020-Q4
1193301	Diethylene Glycol Monoethyl Ether (4 x 0.25 mL/ampule)	2020-Q4
1220302	Dipivefrin Hydrochloride (200 mg)	N/A

Catalog #	Description	Estimated Availability Date (as of 03Jun2020)
1221000	Disodium Guanylate (350 mg)	2020-Q4
1224959	Dolasetron Mesylate (125 mg)	2020-Q4
1224960	Dolasetron Mesylate Related Compound A (25 mg) (Hexahydro-8-hydroxy-2,6-methano-2H-quinolizin-3 (4H)-one, hydrochloride)	2020-Q3
1268728	Etodolac Related Compound A (25 mg) ((+/-)-8-ethyl-1-methyl-1,3,4,9-tetrahydropyrano [3,4-b]-indole-1-acetic acid)	2020-Q4
1269119	FAME Standard Mixture (100 mg) (A mixture of 25 Fatty Acid Methyl Esters)	2020-Q4
1269458	Fenoldopam Mesylate (200 mg)	2020-Q4
1269505	Fenoprofen Calcium (500 mg)	2020-Q4
1270435	Filgrastim (0.98 mg) (COLD SHIPMENT REQUIRED) DISCONTINUED	N/A
1273841	Flumazenil Related Compound C (500 mg) (N,N-Dimethylformamide diethyl acetal)	2020-Q4
1287631	Gadoteridol (500 mg)	TBD
1295731	Glyceryl Monolinoleate (500 mg)	2020-Q2
1296756	Gonadorelin Acetate (50 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	TBD
1296767	Gonadorelin Acetate Related Compound A (10 mg) (gonadorelin free acid trifluoroacetate salt) (COLD SHIPMENT REQUIRED)	2020-Q4
1303501	Halothane (1 mL)	2020-Q4
1311306	Homopolymer Polypropylene (3 Strips, 2" x 2 1/2" each)	TBD
1327000	Hydroxychloroquine Sulfate (200 mg)	2020-Q2
1336205	Ifosfamide (500 mg)	2020-Q3
1342106	Insulin Human (100 mg) (COLD SHIPMENT REQUIRED)	2020-Q2
1351107	Isopteropodine (20 mg)	2020-Q3
1357522	Latanoprost Related Compound D (25 mg) (COLD SHIPMENT REQUIRED) (Isopropyl (Z)-7-((1R,2R,3R,5S)-2-[(R)-5-phenyl-3-(triethylsilyloxy)pentyl]-3,5-bis(triethylsilyloxy)cyclopentyl]hept-5-enoate)	2020-Q4
1358795	Levalbuterol Related Compound A (30 mg) (4-(2-tert-butylamino-ethyl)-2-hydroxymethyl-phenol)	TBD
1364007	Levorphanol Tartrate CII (500 mg)	TBD
1374226	Magnesium Carbonate (2 g) (AS)	TBD
1381006	Menadione (200 mg) (Vitamin K3)	2020-Q4
1385007	Mephentyoin (250 mg)	N/A
1424222	Methyl Benzylidene Camphor (200 mg)	2020-Q4
1427005	Methyldopate Hydrochloride (200 mg)	TBD
1428008	Methylene Blue (750 mg)	2020-Q3
1448912	Mupirocin Calcium (200 mg)	2020-Q3
1612619	N-Acetylneuraminic Acid (200 mg)	2020-Q4
1294284	N-Glycolylneuraminic Acid (200 mg)	2020-Q3
1477615	Octreotide Non-Cyclic System Suitability Marker (20 mg) (COLD SHIPMENT REQUIRED)	2020-Q3
1481248	Oxaliplatin Related Compound D (10 mg) (cis-[(1S,2S)-1,2-cyclohexanediamine-N,N'] [oxalato(2-)-O,O']platinum)	2020-Q3
1535744	Phosphatidylethanolamine (100 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	2020-Q3

Catalog #	Description	Estimated Availability Date (as of 03Jun2020)
1535766	Phosphatidylethanolamine (Soy) (50 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	2020-Q3
1535802	Phosphoric Acid (1.5 mL/ampule; 3 ampules)	TBD
1537003	Physostigmine Salicylate (200 mg)	2020-Q4
1291708	Powdered Asian Ginseng Extract (1.5 g)	2020-Q4
1589007	Pyrimethamine (200 mg)	2020-Q3
1601769	Residual Solvent Class 2 - Sulfolane (1.2 mL/ampule; 3 ampules)	TBD
1603108	Ribose (300 mg)	TBD
1605227	Ropinirole Related Compound B (50 mg) (4-[2-(Dipropylamino)ethyl]indoline-2,3-dione hydrochloride)	2020-Q4
1578816	rProtein A (250 uL/ampule; 2 ampules) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	TBD
1606274	Rubusoside (100 mg)	N/A
1615138	Sodium Trifluoroacetate (500 mg)	2020-Q3
1642802	Tacrolimus (150 mg)	TBD
1642857	Tacrolimus System Suitability Mixture (10 mg) (A mixture consisting of tacrolimus, tacrolimus 19-epimer, ascomycin and tacrolimus 8-propyl analog)	2020-Q2
1643452	Terazosin Hydrochloride (200 mg)	TBD
1662504	Thioridazine (200 mg)	TBD
1681000	Trichlormethiazide (200 mg)	2020-Q3
1682206	Triclosan (200 mg)	2020-Q2
1696153	Tritricosanoin (50 mg)	2020-Q4
1700002	Trypsin Crystallized (300 mg) (COLD SHIPMENT REQUIRED)	N/A
1707894	Valacyclovir Related Compound G (50 mg) (N,N-dimethylpyridin-4-amine)	2020-Q3
1711188	Vecuronium Bromide Related Compound C (15 mg) (Piperidinium,1-[(2beta,3alpha,5alpha,16beta,17beta)-3,17-dihydroxy-2-(1-piperidinyl)androstan-16-yl]-1-methyl bromide)	2020-Q3
1718063	Voriconazole Related Compound F (50 mg) ({(1RS,4SR)-7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl}methanesulphonic acid)	2020-Q3

\*Estimated Availability provided is a target only and may change at any time.

Q1: January—March, Q2: April –June, Q3: July – September, Q4: October –December

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## USP RS's with Changes Made to the Description, including Package Size Changes

Catalog #	Current Lot	Current Description	Old Description	Current Package Size	Old Package Size
1035402	F007S0	Anhydro Simvastatin (30 mg) ((1S,3R,7S,8S,8aR)-3,7-Dimethyl-8-[2-[(2R)-6-oxo-3,6-dihydro-2H-pyran-2-yl]ethyl]-1,2,3,7,8,8a-hexahydronaphthalen-1-yl 2,2-dimethylbutanoate) <b>(COLD SHIPMENT REQUIRED)</b>	Anhydro Simvastatin (30 mg) ((1S,3R,7S,8S,8aR)-3,7-Dimethyl-8-[2-[(2R)-6-oxo-3,6-dihydro-2H-pyran-2-yl]ethyl]-1,2,3,7,8,8a-hexahydronaphthalen-1-yl 2,2-dimethylbutanoate)	30 mg	N/A
1044301		Astemizole (200 mg) <b>DISCONTINUED</b>	Astemizole (200 mg)	200 mg	N/A
1118328	F0J201	Chloroquine Related Compound A <b>(15 mg)</b> (4,7-dichloroquinoline)	Chloroquine Related Compound A (25 mg) (4,7-dichloroquinoline)	15 mg	25 mg
1179344	R128Y0	Levomedetomidine <b>((R)-4-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole hydrochloride)</b> (25 mg)	Levomedetomidine (25 mg)	25 mg	N/A

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## USP RS Lots with a Valid Use Date (VUD) in May 2020

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1012768	Alcohol (1.2 mL/ampule; 5 ampules)	R127S0	R087W0(31-May-20)
1044582	Atorvastatin Related Compound H (20 mg) (Lactone Impurity, 5-(4-Fluorophenyl)-1-[2-[(2R, 4R)-4-hydroxy-6-oxotetrahydro-2H-pyran-2-yl]ethyl]-2-isopropyl-N,4-diphenyl-1H-pyrrole-3-carboxamide)	R108G0	R04610(31-May-20)
1068004	Betamethasone Sodium Phosphate (500 mg)	R11420	R004E0(31-May-20)
1078325	Bumetanide Related Compound A (10 mg) (3-Amino-4-phenoxy-5-sulfamoylbenzoic Acid)	R122X0	H0G264(31-May-20)
1091040	Caprylic Acid (300 mg)	R123A0	F1L115(31-May-20)
1096509	Carboprost Tromethamine (30 mg)	R119Y0	R102Q0(31-May-20)
1103105	Cetyl Palmitate (50 mg)	G1H314	G0H314(31-May-20)
1140101	Clomiphene Related Compound A (100 mg) ((E,Z)-2-[4-(1,2-Diphenylethenyl)phenoxy]-N,N-diethylethanamine hydrochloride (1:1))	R06401	R06400(31-May-20)
1150513	Cromolyn Related Compound A (25 mg) (1,3-bis(2-acetyl-3-hydroxyphenoxy) propan-2-ol)	R114X0	F1E045(31-May-20)
1162148	Cytosine (100 mg)	R11180	G0M164(31-May-20)
1012772	Dehydrated Alcohol (1.2 mL/ampule; 5 ampules)	R119J0	G0M292(31-May-20)
1179876	Dextran 40 Calibration (100 mg)	R113X0	G0L325(31-May-20)
1179720	Dextran 40 System Suitability (200 mg)	F1B181	F0B181(31-May-20)
1179741	Dextran 70 (50 mg)	R125P0	F2M324(31-May-20)
1194803	Diethyl Sebacate (1 mL)	R05200	F1K329(31-May-20)
1224960	Dolasetron Mesylate Related Compound A (25 mg) (Hexahydro-8-hydroxy-2,6-methano-2H-quinolizin-3 (4H)-one, hydrochloride)		F0C321(31-May-20)



Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1225441	Doxazosin Related Compound B (20 mg) (6,7-dimethoxyquinazoline-2,4-dione)	R11040	F0H024(31-May-20)
1235139	Emtricitabine System Suitability Mixture B (15 mg)	R105J0	R05270(31-May-20)
1240004	Ergonovine Maleate (150 mg) (List Chemical)	R09310	R045R0(31-May-20)
1287369	Gabapentin Related Compound E (25 mg) (carboxymethyl-cyclohexanecarboxylic acid)	R100X0	G0K277(31-May-20)
1296029	Glycopyrrolate Related Compound A (50 mg) (5-Nitrobenzene-1,3-dicarboxylic acid)	F2K077	F1K077(31-May-20)
1347653	Irinotecan Related Compound D (15 mg) ((R)-9-[(1,4'-Bipiperidine)-1'-carbonyloxy]-4,11-diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinoline hydrochloride, trihydrate)	R11160	R02530(31-May-20)
1356858	Lamivudine Resolution Mixture B (10 mg) (This is a mixture of lamivudine (about 94%) and lamivudine diastereomer (about 6%))	R09280	R013V0(31-May-20)
1366002	Lidocaine (250 mg)	R10250	R013A0(31-May-20)
1367606	Linezolid Related Compound D (20 mg) ((R)-[3-(3-Fluoro-4-morpholinophenyl)-2-oxooxazolidin-5-yl]methyl methanesulfonate)	R104V0	F02260(31-May-20)
1368610	Lisinopril Related Compound A (250 mg) ((S)-2-[(3S,8aS)-3-(4-aminobutyl)-1,4-dioxohexahydropyrrolo[1,2- $\alpha$ ]pyrazin-2(1H)-yl]-4-phenylbutanoic acid)	R121C0	R079P0(31-May-20)
1399001	Methamphetamine Hydrochloride CII (125 mg)	R10450	I1G299(31-May-20)
1437508	Methyl Stearate (300 mg)	R111J0	R061N0(31-May-20)
1432005	Methylparaben (125 mg)	R098B0	K1H071(31-May-20)
1441243	Metoprolol Related Compound B (100 mg) ((+/-)1-Chloro-2-hydroxy-3-[4-(2-methoxyethyl)phenoxy]-propane)	R107L0	H1L531(31-May-20)
1443250	Mexiletine Hydrochloride (200 mg)	R121P0	F3E098(31-May-20)
1444252	Mirtazapine Related Compound D (50 mg) (2-Methyl-1,2,3,4-tetrahydrobenzo[c]pyrazino[1,2-a]pyrido[3,2-f]azepin-10(14bH)-one)	R10960	F0K108(31-May-20)
1474005	Nortriptyline Hydrochloride (200 mg)	J1G063	J0G063(31-May-20)
1504900	Pentamidine Isethionate (200 mg)	R113U0	F0I205(31-May-20)
1548225	Potassium Citrate (1 g)	R082Y0	F0D201(31-May-20)
1551150	Potassium Sucrose Octasulfate (300 mg)	R11510	R026L0(31-May-20)
1576661	Propylene Glycol Monocaprylate Type I (1 g)	R106A0	F0H003(31-May-20)
1589029	Pyroglutamic Acid (30 mg) ((S)-5-Oxopyrrolidine-2-carboxylic acid)	F050B1	F050B0(31-May-20)
1598744	Ranolazine (100 mg)	R11960	F002D0(31-May-20)
1600846	Repaglinide Related Compound C (25 mg) ((S)-2-Ethoxy-4-[2-[[2-phenyl-1-[2-(1-piperidinyl)phenyl]ethyl]amino]-2-oxoethyl] benzoic acid)	R117S0	H0L382(31-May-20)
1601292	Residual Solvents Class 2 - Mixture B (1.2 mL/ampule; 3 ampules)	R08960	R023P0(31-May-20)
1504900	Pentamidine Isethionate (200 mg)	R113U0	F0I205(31-May-20)
1604814	Ritonavir Related Compounds Mixture (50 mg)	R129X0	R084A0(31-May-20)
1614705	Sodium Stearyl Fumarate (200 mg)	R10820	H0M039(31-May-20)
1642824	Tacrolimus 8-epimer (15 mg) (See USP Certificate for full Chemical Name)	R117W0	R08680(31-May-20)
1651009	Tetracycline Hydrochloride (200 mg)	R106N0	R039W0(31-May-20)
1672100	Tomato Extract Containing Lycopene (1 g)	R120T0	F0F001(31-May-20)
1672610	Tramadol Related Compound A CIV (25 mg) ((RS,SR)-1-(3-Methoxyphenyl)-2-(dimethylaminomethyl)cyclohexanol hydrochloride)	R11490	R01610(31-May-20)
1718041	Voriconazole Related Compound D (10 mg) ((2RS,3SR)-2-(2,4-difluorophenyl)-3-(pyrimidin-4-yl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol)	R120M0	F0K273(31-May-20)

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**USP RS Lots with a Valid Use Date (VUD) in June 2020**

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1000408	Abacavir Sulfate (200 mg)	R108M0	R028L0(30-Jun-20)
1614716	Anhydrous Sodium Succinate (250 mg)	R11600	F048D0(30-Jun-20)
1061901	Benzyl Alcohol (500 mg/ampule)	R097X0	R01940(30-Jun-20)
1067001	Betamethasone Acetate (500 mg)	R10160	L0L112(30-Jun-20)
1086200	Calcitonin Salmon (40 mg) (COLD SHIPMENT REQUIRED)	R11130	F0K101(30-Jun-20)
1093001	Carbamazepine (100 mg)	R10260	R058M0(30-Jun-20)
1096826	Castor Oil (3 x 100 mg) (Mixture containing about 92% of Triricinolein)	F04451	F04450(30-Jun-20)
1134299	Citalopram Related Compound F (200 mg) (dimethyl-(1-methyl-3,3-diphenyl-allyl)-amine hydrochloride)	R104Y0	F2K331(30-Jun-20)
1140270	Clomipramine Related Compound D (15 mg) (3-(3,7-Dichloro-10,11-dihydro-5H-dibenzo[b,f]azepin-5-yl)-N,N-dimethylpropan-1-amine hydrochloride)	R121Q0	F0M542(30-Jun-20)
1177000	Dexamethasone Phosphate (500 mg)	R107K0	L2M534(30-Jun-20)
1179763	Dextran 70 System Suitability (100 mg)	R111R0	R053S0(30-Jun-20)
1188006	Dichlorphenamide (200 mg)	R12810	G2C046(30-Jun-20)
1274629	Flunixin Related Compound A (15 mg) (2-Chloronicotinic acid)	F1M446	F0M446(30-Jun-20)
1295844	Glycitein (15 mg)	R095V0	F0H234(30-Jun-20)
1305303	Hexacosanol (100 mg)		F0F131(30-Jun-20)
1347631	Irinotecan Related Compound B (10 mg) ((S)-4,11-diethyl-4,9-dihydroxy-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione)	R107V0	R01310(30-Jun-20)
1350603	Isopropyl Palmitate (500 mg)	R107E0	K0K320(30-Jun-20)
1358831	Levalbuterol Related Compound E (30 mg) (alpha-[(1,1-Dimethylethylamino)methyl]-3-(ethoxy-methyl)-4-hydroxy-benzenemethanol)	R112P0	F0G174(30-Jun-20)
1362500	Levonordefrin (200 mg)	R11360	G0M346(30-Jun-20)
1364007	Levorphanol Tartrate CII (500 mg)		I0D138(30-Jun-20)
1365000	Levothyroxine (500 mg)	R110D0	R016X1(30-Jun-20)
1375070	Mangafodipir Related Compound A (15 mg) (manganese (II) dipyradoxyl monophosphate sodium salt) DISCONTINUED		F0D266(30-Jun-20)
1375080	Mangafodipir Related Compound B (15 mg) (manganese (II) dipyradoxyl diphosphate mono-overalkylated sodium salt) DISCONTINUED		F0D267(30-Jun-20)
1375091	Mangafodipir Related Compound C (15 mg) (manganese (III) dipyradoxyl diphosphate sodium salt) DISCONTINUED		F0D283(30-Jun-20)
1427005	Methyldopate Hydrochloride (200 mg)		G-2(30-Jun-20)
1441200	Metolazone (200 mg)	R108B0	R00420(30-Jun-20)
1457017	Naphazoline Related Compound A (30 mg) (N-(2-Aminoethyl)-2-(naphthalen-1-yl)acetamide)	R10020	F03190(30-Jun-20)
1546853	Polyethylene Oxide (100 mg)	R098D0	G0L084(30-Jun-20)
1564006	Procaine Hydrochloride (200 mg)	I2M105	I1M105(30-Jun-20)
1601623	Residual Solvent Class 2 - Methanol (1.2 mL/ampule; 3 ampules)	R084K0	R03740(30-Jun-20)
1601805	Residual Solvent Class 2 - Toluene (1.2 mL/ampule; 3 ampules)	R08380	R03210(30-Jun-20)
1605500	Ropivacaine Hydrochloride (200 mg)	R101P0	R047V0(30-Jun-20)
1605952	Rosmarinic Acid (25 mg)	R11120	F0M076(30-Jun-20)
1614807	Sodium Sulfate Anhydrous (1 g)	R089N0	R029V0(30-Jun-20)

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1643420	Telmisartan Related Compound A (20 mg) (1,7'-dimethyl-2'-propyl-1H,3'H-2,5'-bibenzo[d]imidazole monohydrate)	R10870	F11326(30-Jun-20)
1643601	Tenofovir (15 mg)	R098E0	R044C0(30-Jun-20)
1667370	Tilmicosin (250 mg)	R112A0	G0H061(30-Jun-20)
1667348	Timolol Related Compound F (20 mg) (3-Chloro-4-morpholino-1,2,5-thiadiazol)	R102U0	F000V0(30-Jun-20)
1717708	Vitexin (25 mg) ((1S)-1,5-Anhydro-1-[5,7-dihydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-chromen-8-yl]-D-glucitol)	R096B0	R049C0(30-Jun-20)
1720203	Xanthone (100 mg)	R104T0	G0G076(30-Jun-20)
1724838	Zoledronic Acid Related Compound A (30 mg) (2-(1H-Imidazol-1-yl)acetic acid)	R118D0	R006D0(30-Jun-20)

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### USP RS Lots with a Valid Use Date (VUD) in July 2020

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1003010	Acetaminophen Related Compound A (15 mg) (4-(acetamino)phenyl acetate)	R107A0	F0J252(31-Jul-20)
1012644	Albuterol Related Compound A (25 mg) (4-[2-[(1,1-dimethylethyl)amino]-1-hydroxyethyl]-2-methylphenol sulfate)	R10810	F0H223(31-Jul-20)
1033407	Ampicillin Trihydrate (200 mg)	R10830	I0M457(31-Jul-20)
1044356	Atazanavir Related Compound A (25 mg) ((S)-2-[(Methoxycarbonyl)amino]-3,3-dimethylbutanoic acid)	R115L0	F020K0(31-Jul-20)
1081501	Butamben (200 mg)	H1K373	H0K373(31-Jul-20)
1087202	Calcium Saccharate (200 mg)	R103L0	G1I221(31-Jul-20)
1096553	Carboxymethylcellulose Sodium (1.5 g)	R12600	R086L0(31-Jul-20)
1098300	Cellulose Acetate (125 mg)	R098W0	R01040(31-Jul-20)
1140338	Clonazepam Related Compound B (25 mg) (2-Amino-2'-chloro-5-nitrobenzophenone)	R105F0	I0G326(31-Jul-20)
1141024	Clotrimazole Related Compound A (25 mg) ((o-chlorophenyl)diphenylmethanol)	R103D0	R02240(31-Jul-20)
1225522	Doxepin Related Compound B (50 mg) ((11RS)-11-[3-(dimethylamino)propyl]-6,11-dihydrodibenzo[b,e]oxepin-11-ol)	R118X0	F0F328(31-Jul-20)
1235999	Ephedrine Hydrochloride (200 mg) (List Chemical)	R08630	F03110(31-Jul-20)
1295764	Glyceryl Monocaprylate (300 mg)	F03131	F03130(31-Jul-20)
1295731	Glyceryl Monolinoleate (500 mg)		F0G118(31-Jul-20)
1298117	Granisetron Related Compound A (15 mg) (2-methyl-N-[(1R,3r,5S)-9-methyl-9-azabicyclo[3.3.1]non-3-yl]-2H-indazole-3-carboxamide)	R107X0	R05490(31-Jul-20)
1335279	Hypromellose Acetate Succinate (100 mg)	R11070	F0D275(31-Jul-20)
1356632	Ketoprofen (200 mg)	R114U0	H1H247(31-Jul-20)
1359415	Levetiracetam Racemic Mixture (15 mg) (1:1 mixture of levetiracetam S-enantiomer-(2S)-2-(2-oxopyrrolidin-1-yl)butanamide and levetiracetam R-enantiomer (2R)-2-(2-oxopyrrolidin-1-yl)butanamide)	R10800	R028T0(31-Jul-20)
1700501	L-Tryptophan (200 mg)	R101K0	R001N0(31-Jul-20)
1457505	Natamycin (200 mg)	R10990	K0K368(31-Jul-20)
1266802	N-Ethylpiperazine (0.5 mL)	R09750	F0H382(31-Jul-20)

Catalog #	Description	Current Lot	Previous Lot (Valid Use Date)
1466007	Nitrofurazone Related Compound A (50 mg) (1,2-Bis[(5-nitrofuranyl)methylene]hydrazine)	R10530	I0G265(31-Jul-20)
1468501	Norepinephrine Bitartrate (125 mg)	R104E0	R034M0(31-Jul-20)
1478312	Olanzapine Related Compound A (15 mg) (5-Methyl-2-((2-nitrophenyl)amino)-3-thiophenecarbonitrile)	R10720	R053W0(31-Jul-20)
1478527	Omeprazole Related Compound E (15 mg) (4-Methoxy-2-[[[(RS)-(5-methoxy-1H-benzimidazol-2-yl)sulfinyl]methyl]-3,5-dimethylpyridine 1-oxide])	R10120	R04731(31-Jul-20)
1481237	Oxaliplatin Related Compound C (20 mg) ([1R-trans-(1,2-cyclohexanediamine-N,N')]-trans-dihydroxido-[oxalato(2-O,O')]platinum(IV))	R11580	R029E0(31-Jul-20)
1483185	Oxcarbazepine Related Compound C (10 mg) (Acridin-9(10H)-one)	F1K166	F0K166(31-Jul-20)
1570326	Propafenone Related Compound B (50 mg) (RS,E)-1-[2-[2-Hydroxy-3-(propylamino)propoxy]phenyl]-3-phenylprop-2-en-1-one)	R10300	F11039(31-Jul-20)
1592409	Quercetin (200 mg)	R120F0	R035P0(31-Jul-20)
1598097	Racinephrine Hydrochloride (30 mg)	F070V1	F070V0(31-Jul-20)
1604950	Rivastigmine Related Compound E (15 mg) ((S)-1-(3-{[Ethyl(methyl)carbamoyl]oxy}phenyl)-N,N,N-trimethylethanaminium chloride)	R103W0	F000H0(31-Jul-20)
1612845	Sibutramine Hydrochloride CIV (125 mg) DISCONTINUED		F0I257(31-Jul-20)
1613757	Sodium Carbonate Anhydrous (1 g)	R097Q0	F0D100(31-Jul-20)
1667916	Tizanidine Related Compound A (50 mg) (4-amino-5-chloro-2,1,3-benzothiadiazole)	R105T0	F0F215(31-Jul-20)
1672210	Topiramate Related Compound A (25 mg) (2,3:4,5-Bis-O-(1-methylethylidene)-beta-D-fructopyranose)	R114S0	H0M278(31-Jul-20)
1698002	Tromethamine (125 mg)	R104D0	R046Q0(31-Jul-20)
1711304	Verapamil Related Compound A (50 mg) (3,4-Dimethoxy-alpha-[3-(methylamino)propyl]-alpha-(1-methylethyl)-benzeneacetonitrile monohydrochloride)	R10630	I0J297(31-Jul-20)
1712012	Vigabatrin Related Compound A (50 mg) (5-vinylpyrrolidin-2-one)	R108P0	R06650(31-Jul-20)
1724769	Zinc Sulfate (1 g)	R096J0	F0D133(31-Jul-20)

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## USP Reference Standard Lots Requiring 100.0% Assumption with Assigned VUD

Catalog #	Description	Current Lot (Valid Use Date)	Previous Lot (Valid Use Date)
1026605	3-Amino-2,4,6-triiodobenzoic Acid (50 mg)	G (31Oct2020)	
1006506	Acetohydroxamic Acid (200 mg)	F-1 (31Oct2020)	
1034308	Amrinone (500 mg) (Inamrinone)	R13050	G (31Aug2020)
1034341	Amrinone Related Compound B (100 mg) (N-(1,6-dihydro-6-oxo-(3,4'-bipyridine)-5-yl)-2-hydroxypropanamide) (Inamrinone Related Compound B)	F-1 (31Oct2020)	
1039006	Anthralin (200 mg)	I0B221 (31Oct2020)	

Catalog #	Description	Current Lot (Valid Use Date)	Previous Lot (Valid Use Date)
1195001	Diethylstilbestrol (200 mg)	K5B291 (31Oct2020)	
1287631	Gadoteridol (500 mg)		F (31Oct2020)
1291005	Gibberellic Acid (200 mg)	G (31Oct2020)	
1301404	Guanabenz Acetate (200 mg)	G (31Oct2020)	
1308307	Hexylresorcinol (200 mg)	F (31Oct2020)	
1344826	Iopromide Related Compound A (50 mg) (5-Amino-N,N'-bis(2,3-dihydroxypropyl)-2,4,6-triiodo-N-methyl-1,3-benzenedicarboxamide)	F (31Oct2020)	
1344837	Iopromide Related Compound B (50 mg) (5-(Acetylamino)-N,N'-bis(2,3-dihydroxypropyl)-2,4,6-triiodo-N-methyl-1,3-benzenedicarboxamide)	F (31Oct2020)	
1345115	Ioversol Related Compound A (50 mg) (5-Amino-N,N'-bis(2,3-dihydroxypropyl)-2,4,6-triiodoisophthalamide)	F (31Oct2020)	
1345126	Ioversol Related Compound B (50 mg) (N,N'-bis(2,3-dihydroxypropyl)-5-[(N-(2-hydroxyethyl)-carbamoyl)methoxy]-2,4,6-triiodoisophthalamide)	F (31Oct2020)	
1345228	Ioxilan Related Compound A (100 mg) (5-amino-2,4,6-triiodo-3 N-(2-hydroxyethyl)carbamoyl benzoic acid)	F (31Oct2020)	
1355753	Kawain (200 mg)	F0C160 (31Oct2020)	
1367504	Lindane (200 mg)	F-2 (31Oct2020)	
1386000	Mephobarbital CIV (250 mg)	G (31Oct2020)	
1406005	Methazolamide (500 mg)	H0B239 (31Oct2020)	
1424222	Methyl Benzylidene Camphor (200 mg)		F0B118 (31Oct2020)
1443001	Metyrapone (200 mg)	H (31Oct2020)	
1517006	Phenelzine Sulfate (200 mg)	G (31Oct2020)	
1534005	Phenylpropanolamine Hydrochloride (250 mg) (List Chemical)	J (31-OCT-2020)	I (28-FEB-2002)
1569000	Promazine Hydrochloride	H0B261 (31Oct2020)	
1592205	Quazepam CIV (200 mg)	F (31Oct2020)	
1606208	Roxarsone (200 mg)	F (31Oct2020)	
1013057	S-Allyl-L-cysteine (25 mg)	F (31Oct2020)	
1610090	Scopoletin (20 mg)	F0C329 (31-OCT-2020)	
1611004	Secobarbital CII (200 mg)	H (31Oct2020)	
1620005	Stanozolol CIII (200 mg)	F-3 (31Oct2020)	
1636504	Sulfathiazole (350 mg)	H (31Oct2020)	
1655000	Thiabendazole (100 mg)	G0A027 (31-OCT-2020)	F-1 (30-APR-2003)
1665003	Thiothixene (250 mg)	H0B317 (31Oct2020)	
1667552	Tocainide Hydrochloride (125 mg)	F-1 (31Oct2020)	
1670003	Tolbutamide (200 mg)	I (31Oct2020)	
1670502	Tolmetin Sodium (500 mg)	I0B064 (31Oct2020)	
1686003	Triflupromazine Hydrochloride (200 mg)	F-2 (31Oct2020)	



Catalog #	Description	Current Lot (Valid Use Date)	Previous Lot (Valid Use Date)
1696200	Trisalicylic Acid (100 mg)	G (31Oct2020)	
1710006	Vanillin (200 mg)	R103K0	J0A021 (31Oct2020)
1720000	Xanthanoic Acid (100 mg)	R129R0	G-1 (31Oct2020)

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