

Reference Standards Tables

Below are several tables with the latest Reference Standard information including out-of-stock items now available; new Reference Standards released in the last month; backordered items with estimated availability dates; items with lots that are no longer valid (or soon will be invalid); and items with new lots since the last newsletter. USP strongly suggest downloading the FREE Reference Standards and Resources APP to easily track and receive notifications and alerts for the Reference Standards of interest to you. Please contact your USP Customer Service Representative to place an order at +1-301-881-0666 or 1-800-227-8772. European customers can call 00-800-4875-5555. You can also order online at <http://www.usp.org/products>

[New Reference Standards Now Available](#)

[Items With Replacement Lots](#)

[Backorder Availability Report As of September 4, 2019](#)

[Previously Out-of-Stock Items Now Available](#)

[No Longer Valid as of September 2019](#)

New Reference Standards Now Available

Catalog	Description	Current Lot	Start Date#	Unit Price
1622044	Stearylpyridinium Chloride (25 mg) (1-Octadecylpyridinium chloride)	F11930	14-Aug-19	\$740.00
1424511	Beta-Methylcholine Chloride (2 X 25 mg) (2-Hydroxy-N,N,N-trimethylpropan-1-aminium chloride)	F105V0	15-Aug-19	\$1,495.00
1021077	Ethyl 3-Aminocrotonate (2 x 200 mg) (Ethyl (Z)-3-aminobut-2-enoate)	F10540	15-Aug-19	\$1,295.00
1604563	Rivaroxaban Related Compound D (20 mg) (1,3-Bis({(S)-2-oxo-3-[4-(3-oxomorpholino)phenyl]oxazolidin-5-yl)methyl}urea)	F11650	15-Aug-19	\$1,075.00
1604574	Rivaroxaban Related Compound J (20 mg)	F11660	15-Aug-19	\$1,075.00
1604552	Rivaroxaban Related Compound B (20 mg) ((S)-N-({2-Oxo-3-[4-(3-oxomorpholino)phenyl]oxazolidin-5-yl)methyl}acetamide)	F11640	16-Aug-19	\$1,075.00
1528534	Phentermine Related Compound C (100 mg) ((2-Methylprop-1-en-1-yl)benzene)	F11450	5-Sep-19	\$1,270.00
1589040	Pyrroloquinoline Quinone Disodium (100 mg)	F105S0	5-Sep-19	\$975.00

1075768	Bisoprolol Related Compound A (50 mg) (1-[4-(Hydroxymethyl)phenoxy]-3-(isopropylamino)propan-2-ol)	F113G0	5-Sep-19	\$895.00
1185063	Diazepam Related Compound E (25 mg) (6-Chloro-1-methyl-4-phenylquinazolin-2(1H)-one)	F114A0	5-Sep-19	\$835.00

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Items with Replacement Lots

Catalog	Description	Current Lot	Previous Lot (Valid Use Date)		Unit Price
1724747	Zinc Oxide (200 mg)	R11230	R04081 (31-Aug-20)	9-Sep-19	\$245.00
1499403	Paricalcitol (10 mg) (COLD SHIPMENT REQUIRED)	R120H0	R048Q0 (31-Aug-20)	6-Aug-19	\$2,380.00
1292507	Glipizide (125 mg)	R09020	H1H396 (31-Mar-20)	5-Sep-19	\$200.00
1098129	Ceftazidime Delta-3-Isomer (15 mg)	R115Q0	R035X0 (31-Aug-20)	27-Aug-19	\$775.00
1365000	Levothyroxine (500 mg)	R110D0	R016X1 (30-Jun-20)	13-Aug-19	\$245.00
1078325	Bumetanide Related Compound A (10 mg) (3-Amino-4-phenoxy-5-sulfamoylbenzoic Acid)	R122X0	H0G264 (31-May-20)	13-Aug-19	\$835.00
1667701	Alpha Tocopheryl Acetate (250 mg) (Vitamin E Acetate) (COLD SHIPMENT REQUIRED)	R03530	L0K188 (31-Aug-20)	15-Aug-19	\$250.00
1483301	Oxfendazole (200 mg)	R11840	R004P0 (29-Feb-20)	20-Aug-19	\$245.00
1096553	Carboxymethylcellulose Sodium (1.5 g)	R12600	R086L0 (31-Jul-20)	13-Aug-19	\$275.00
1651009	Tetracycline Hydrochloride (200 mg)	R106N0	R039W0 (31-May-20)	13-Aug-19	\$245.00
1614716	Anhydrous Sodium Succinate (250 mg)	R11600	F048D0 (30-Jun-20)	13-Aug-19	\$265.00
1607029	Saccharin Calcium (150 mg)	R120G0	F0F007 (31-Mar-20)	5-Sep-19	\$230.00
1594506	Quinic Acid (200 mg) (Cyclohexanecarboxylic acid, 1,3,4,5-tetrahydroxy-, (-)-)	R112Y0	R019K0 (31-Aug-20)	22-Aug-19	\$215.00
1544508	Piroxicam (125 mg)	R10290	J0M314 (29-Feb-20)	20-Aug-19	\$245.00
1271700	Fluconazole (200 mg)	R10940	R021F0 (31-Aug-20)	26-Aug-19	\$245.00
1177000	Dexamethasone Phosphate (500 mg)	R107K0	L2M534 (30-Jun-20)	20-Aug-19	\$245.00
1700501	L-Tryptophan (200 mg)	R101K0	R001N0 (31-Jul-20)	29-Aug-19	\$290.00

1504900	Pentamidine Isethionate (200 mg)	R113U0	F0I205 (31-May-20)	20-Aug-19	\$245.00
1501108	Penicillamine Disulfide (200 mg) (3,3'-Dithiodi-D-valine)	R106S0	R017T0 (31-Aug-20)	20-Aug-19	\$835.00
1446815	Montelukast Dicyclohexylamine (150 mg)	R10590	R035A0 (30-Sep-20)	9-Sep-19	\$595.00
1235820	Enoxaparin Sodium (300 mg)	R11090	R01010 (30-Apr-20)	1-Aug-19	\$300.00
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)	22-Aug-19	\$775.00
1264002	Ethosuximide (500 mg)	R119F0	I0F301 (31-Aug-20)	27-Aug-19	\$245.00
1724769	Zinc Sulfate (1 g)	R096J0	F0D133 (31-Jul-20)	15-Aug-19	\$250.00
1166003	Deferoxamine Mesylate (300 mg)	K1K196	K0K196 (31-Mar-20)	20-Aug-19	\$245.00
1003100	Acetaminophen Related Compound J (50 mg) (N-(4-chlorophenyl)acetamide)	R11340	R00310 (1-Aug-19)	15-Aug-19	\$775.00
1667916	Tizanidine Related Compound A (50 mg) (4-amino-5-chloro-2,1,3-benzothiadiazole)	R105T0	F0F215 (31-Jul-20)	22-Aug-19	\$775.00
1356632	Ketoprofen (200 mg)	R114U0	H1H247 (31-Jul-20)	12-Aug-19	\$245.00
1081501	Butamben (200 mg)	H1K373	H0K373 (31-Jul-20)	13-Aug-19	\$245.00

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Backorder Availability As of September 4th

Catalog	Item Description	Estimated Availability
1012644	Albuterol Related Compound A (25 mg) (4-[2-[(1,1-dimethylethyl)amino]-1-hydroxye	Feb-20
1012768	Alcohol (1.2 mL/ampule; 5 ampules)	Oct-19
1034308	Amrinone (500 mg) (Inamrinone)	TBD
1042420	Argatroban Related Compound B (20 mg) (Ethyl (4R)-1-[N ⁸ -nitro-L-arginyl]-4-meth	Feb-20

1044356	Atazanavir Related Compound A (25 mg) ((S)-2-[(Methoxycarbonyl)amino]-3,3-dimeth	Nov-19
1076308	Bleomycin Sulfate (15 mg)	Oct-19
1078008	<i>Brompheniramine Maleate (125 mg)</i>	Nov-19
1084995	Caffeic Acid (100 mg)	N/A
1086200	Calcitonin Salmon (20 mg) (COLD SHIPMENT REQUIRED)	Feb-20
1087359	Calcium Stearate (2 g) (AS)	N/A
1091040	Caprylic Acid (300 mg)	Feb-20
1096509	Carboprost Tromethamine (30 mg)	Nov-19
1096529	Carglumic Acid Related Compound B (30 mg) ((S)-2,7-dioxo-1,3-diazepane-4-carboxylic acid)	TBD
1135000	<i>Clidinium Bromide (500 mg)</i>	Feb-20
1150115	Cosyntropin Acetate (1.69 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED) (alph	TBD
1171910	Desflurane Related Compound A (0.1 mL) (bis-(1,2,2,2-tetrafluoroethyl) ether)	Nov-19
1179720	Dextran 40 System Suitability (200 mg)	Nov-19
1179741	Dextran 70 (50 mg)	Oct-19
1191226	Didanosine Related Compound A (25 mg) (Hypoxanthine)	Oct-19
1224960	Dolasetron Mesylate Related Compound A (25 mg) (Hexahydro-8-hydroxy-2,6-methano-	TBD
1270435	Filgrastim (0.98 mg) (COLD SHIPMENT REQUIRED)	Feb-20
1282707	Fondaparinux Sodium for Assay (0.6 mL) (COLD SHIPMENT REQUIRED)	Feb-20
1286322	Fosfomycin Tromethamine (800 mg)	TBD
1292507	Glipizide (125 mg)	Oct-19
1295731	Glyceryl Monolinoleate (500 mg)	Feb-20
1325005	Hydroxyamphetamine Hydrobromide (200 mg)	Feb-20
1335010	Hyoscyamine Related Compound A (10 mg) (Norhyoscyamine Sulfate)	Oct-19
1335279	Hypromellose Acetate Succinate (100 mg)	Nov-19
1344600	Iohexol (200 mg)	Nov-19
1358831	Levalbuterol Related Compound E (30 mg) (alpha-[(1,1-Dimethylethyl)amino]methyl	Nov-19
1362500	Levonordefrin (200 mg)	Feb-20
1364007	Levorphanol Tartrate CII (500 mg)	TBD
1427005	Methyldopate Hydrochloride (200 mg)	TBD
1443250	Mexiletine Hydrochloride (200 mg)	Oct-19
1443952	Mineral Oil (1.5 mL)	Oct-19
1478811	Orlistat Related Compound A (25 mg) ((3S,4S)-3-hexyl-4-[(R)-2-hydroxytridecyl]-2	Nov-19
1481237	Oxaliplatin Related Compound C (20 mg) ([1R-trans-(1,2-cyclohexanediamine-N,N')]	Oct-19
1492255	Palonosetron Related Compound D (15 mg) ((3aR)-2-[(3S)-Quinuclidin-3-yl]-2,3,3a,	Feb-20

1500251	Paroxetine Related Compound D (10 mg) (cis-Paroxetine hydrochloride) (AS)	Nov-19
1535744	Phosphatidylethanolamine (100 mg) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	Feb-20
1546489	Polyethylene Glycol 1000 (1 g)	Feb-20
1551150	Potassium Sucrose Octasulfate (300 mg)	Oct-19
1559647	Pregabalin Related Compound C (25 mg) (4-Isobutylpyrrolidin-2-one)	Oct-19
1578805	Protein A (250 uL/ampule; 2 ampules) (INTERNATIONAL COLD CHAIN SHIPMENT REQUIRED)	N/A
1579310	Protocatechuic Acid (25 mg) (3,4-dihydroxybenzoic acid) DISCONTINUED	N/A
1601601	Residual Solvent Class 2 - Hexane (1.2 mL/ampule; 3 ampules)	Oct-19
1601780	Residual Solvent Class 2 - Tetralin (1.2 mL/ampule; 3 ampules)	Feb-20
1604814	Ritonavir Related Compounds Mixture (50 mg)	Nov-19
1607029	Saccharin Calcium (100 mg)	Oct-19
1612845	Sibutramine Hydrochloride CIV (125 mg) DISCONTINUED	N/A
1614807	Sodium Sulfate Anhydrous (1 g)	Oct-19
1653117	Theophylline Melting Point Standard (2 x 500 mg) (Approximately 271 degrees)	Feb-20
1667370	Tilmicosin (250 mg)	Feb-20
1672100	Tomato Extract Containing Lycopene (1 g)	Oct-19
1680007	Triamterene (200 mg)	Nov-19
1700002	Trypsin Crystallized (300 mg) (COLD SHIPMENT REQUIRED)	N/A
1724747	Zinc Oxide (200 mg)	Oct-19

*Dates are targets and may change at any time. Q1January—March, Q2 April –June, Q3- July – September, Q4- October –December

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Previously Out of Stock Items Now Available

Catalog	Description and Package Size	Lot	Price
1081501	Butamben (200 mg)	H1K373	\$245.00
1078325	Bumetanide Related Compound A (10 mg) (3-Amino-4-phenoxy-5-sulfamoylbenzoic Acid)	R122X0	\$835.00
1365000	Levothyroxine (500 mg)	R110D0	\$245.00
1614716	Anhydrous Sodium Succinate (250 mg)	R11600	\$265.00
1601281	Residual Solvents Class 2 - Mixture A (1.2 mL/ampule; 3 ampules)	R08520	\$245.00
1096553	Carboxymethylcellulose Sodium (1.5 g)	R12600	\$275.00
1003100	Acetaminophen Related Compound J (50 mg) (N-(4-chlorophenyl)acetamide)	R11340	\$775.00
1544508	Piroxicam (125 mg)	R10290	\$245.00

1504900	Pentamidine Isethionate (200 mg)	R113U0	\$245.00
1166003	Deferoxamine Mesylate (300 mg)	K1K196	\$245.00
1177000	Dexamethasone Phosphate (500 mg)	R107K0	\$245.00
1483301	Oxfendazole (200 mg)	R11840	\$245.00
1667916	Tizanidine Related Compound A (50 mg) (4-amino-5-chloro-2,1,3-benzothiadiazole)	R105T0	\$775.00
1141002	Clotrimazole (200 mg)	R063A0	\$200.00
1711177	Vecuronium Bromide Related Compound B (15 mg) (Piperidinium, 1-[(2beta, 3alpha, 5alpha, 16beta, 17beta)-3-acetyloxy-17-hydroxy-2-(1-piperidinyl)androstan-16-yl]-1-methyl bromide)	R118S0	\$835.00
1225522	Doxepin Related Compound B (50 mg) ((11RS)-11-[3-(dimethylamino)propyl]-6,11-dihydrodibenzo[b,e]oxepin-11-ol)	R118X0	\$775.00
1061901	Benzyl Alcohol (500 mg/ampule)	R097X0	\$245.00
1264002	Ethosuximide (500 mg)	R119F0	\$245.00
1098129	Ceftazidime Delta-3-Isomer (15 mg)	R115Q0	\$775.00
1700501	L-Tryptophan (200 mg)	R101K0	\$290.00
1607029	Saccharin Calcium (150 mg)	R120G0	\$230.00
1292507	Glipizide (125 mg)	R09020	\$200.00
1179741	Dextran 70 (50 mg)	R125P0	\$300.00

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Items with New Package Size or New Description

Catalog #	Description	Lot	Old Size	New Size
1098129	Ceftazidime Delta-3-Isomer (15 mg)	R115Q0	N/A	N/A
1594506	Quinic Acid (200 mg)	R112Y0	N/A	N/A
1501108	Penicillamine Disulfide (200 mg)	R106S0	N/A	N/A

Reference Lots that are No Longer Valid (VUD)

This table lists previous RS lots that are (or will soon be) no longer valid for official use. If you still have any of these materials on hand, do not use them for compendial testing purposes after the last day of the month for the valid use dates listed. To test products, always be sure you use a current, valid lot of USP RS. Current lot numbers and valid use dates for previous lots are available in the USP Store online [here](#), and by downloading the free Reference Standards and Resources App

Catalog	Description	Current Lot	Previous Lot	Unit Price
1236700	(-)-Epigallocatechin-3-O-gallate (20 mg)	R088T0	G0L208(30-Sep-19)	\$220.00
1005004	Acetazolamide (2 g)	R089P0	K1J032(30-Sep-19)	\$245.00
1368201	Alpha Lipoic Acid (500 mg)	F1I018	F0I018(30-Sep-19)	\$220.00
1042689	Aripiprazole Related Compound F (25 mg) (4-(2,3-dichlorophenyl)-1-[4-(2-oxo-1,2,3,4-tetrahydroquinolin-7-yloxy)butyl]piperazin 1-oxide)	R079V0	R035L0(30-Sep-19)	\$835.00
1065618	Betahistine Hydrochloride (200 mg)	R10090	R030R0(30-Sep-19)	\$245.00
1065695	Betaine (1 g)	F1I379	F0I379(30-Sep-19)	\$235.00
1078813	Buspirone Related Compound G (50 mg) (1,4-Di(pyrimidin-2-yl)piperazine)	R09430	F015T0(30-Sep-19)	\$835.00
1096509	Carboprost Tromethamine (30 mg)		R058P0(30-Sep-19)	\$760.00
1098526	Celecoxib Related Compound B (10 mg) (4-[3-(4-methylphenyl)-5-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide)	R091R0	R018P0(30-Sep-19)	\$775.00
1134131	Cisatracurium Besylate System Suitability Mixture (20 mg)	R084B0	F0M559(30-Sep-19)	\$775.00
1185020	Diazepam Related Compound A (25 mg) (2-methylamino-5-chlorobenzophenone)	R083U0	J0H438(30-Sep-19)	\$835.00
1252003	Estradiol Cypionate (200 mg)	H1H309	H0H309(30-Sep-19)	\$245.00
1269174	Famciclovir Related Compound A (20 mg) (2-[2-(2-Amino-9H-purin-9-yl)ethyl]propane-1,3-diol] hydrochloride)	R082S0	F0J126(30-Sep-19)	\$775.00
1154591	Gamma Cyclodextrin (200 mg)	R094L0	F0D396(30-Sep-19)	\$265.00
1294976	Glutamic Acid (200 mg)	R09550	G0M202(30-Sep-19)	\$290.00
1297216	Goserelin Related Compound A (10 mg) (4-D-Serine Goserelin, 1-(5-Oxo-L-prolyl-L-histidyl-L-tryptophyl-D-seryl-L-tyrosyl-O-tert-butyl-D-seryl-L-leucyl-L-arginyl-L-prolyl) semicarbazide) (COLD SHIPMENT REQUIRED)	R11010	F0H105(30-Sep-19)	\$850.00

1297216	Goserelin Related Compound A (10 mg) (4-D-Serine Goserelin, 1-(5-Oxo-L-prolyl-L-histidyl-L-tryptophyl-D-seryl-L-tyrosyl-O-tert-butyl-D-seryl-L-leucyl-L-arginyl-L-prolyl) semicarbazide) (COLD SHIPMENT REQUIRED)	R11010	FOH105(30-Sep-19)	\$850.00
1297216	Goserelin Related Compound A (10 mg) (4-D-Serine Goserelin, 1-(5-Oxo-L-prolyl-L-histidyl-L-tryptophyl-D-seryl-L-tyrosyl-O-tert-butyl-D-seryl-L-leucyl-L-arginyl-L-prolyl) semicarbazide) (COLD SHIPMENT REQUIRED)	R11010	FOH105(30-Sep-19)	\$850.00
1297250	Goserelin System Suitability Mixture (1.075 mg) (COLD SHIPMENT REQUIRED)	R114F0	FOI017(30-Sep-19)	\$730.00
1297250	Goserelin System Suitability Mixture (1.075 mg) (COLD SHIPMENT REQUIRED)	R114F0	FOI017(30-Sep-19)	\$730.00
1297250	Goserelin System Suitability Mixture (1.075 mg) (COLD SHIPMENT REQUIRED)	R114F0	FOI017(30-Sep-19)	\$730.00
1298139	Granisetron Related Compound C (15 mg) (N-[(1R,3r,5S)-9-azabicyclo[3.3.1]non-3-yl]-1-methyl-1H-indazole-3-carboxamide hydrochloride)	R099T0	FOH354(30-Sep-19)	\$845.00
1299200	Griseofulvin Permeability Diameter (2 g)	R106C0	K1J046(30-Sep-19)	\$265.00
1354309	Ivermectin (200 mg)	R091C0	H1I385(30-Sep-19)	\$245.00
1359426	Levetiracetam Related Compound A (20 mg) ((S)-N-(1-amino-1-oxobutan-2-yl)-4-chlorobutanamide)	R09000	R026C0(30-Sep-19)	\$775.00
1379300	Melphalan Hydrochloride (200 mg)	R086P0	R068T0(30-Sep-19)	\$165.00
1381709	Menthol (250 mg)	R09450	R00640(30-Sep-19)	\$250.00
1396149	Metaxalone (200 mg)	R073W0	F0M062(30-Sep-19)	\$245.00
1445404	Modafinil CIV (200 mg)	G1L085	G0L085(30-Sep-19)	\$395.00
1450007	Nafcillin Sodium (200 mg)	R091Y0	I0G229(30-Sep-19)	\$245.00
1491296	Oxytocin Identification (15 mg) (COLD SHIPMENT REQUIRED)	R100Y0	FOI056(30-Sep-19)	\$380.00
1491296	Oxytocin Identification (15 mg) (COLD SHIPMENT REQUIRED)	R100Y0	FOI056(30-Sep-19)	\$380.00
1491296	Oxytocin Identification (15 mg) (COLD SHIPMENT REQUIRED)	R100Y0	FOI056(30-Sep-19)	\$380.00
1548167	Potassium Carbonate (1 g)	R096G0	F0D075(30-Sep-19)	\$245.00

1554217	Pravastatin Related Compound A (10 mg) (Sodium (3R,5R)-3,5-dihydroxy-7- [(1S,2R,3S,8S,8aR)-3-hydroxy-2-methyl-8- [[[(2S)-2-methylbutanoyl]oxy]-1,2,3,7,8,8a- hexahydronaphthalen-1-yl] heptanoate)	R08280	G0L198(30-Sep-19)	\$835.00
1554206	Pravastatin Sodium (50 mg)	R08600	F1I288(30-Sep-19)	\$265.00
1576796	Propylene Glycol Monolaurate Type II (500 mg)	R097Y0	F0G355(30-Sep-19)	\$265.00
1643485	Terazosin Related Compound C (25 mg) (1,4-Bis(4-amino-6,7-dimethoxy-2- quinazolinyl)piperazine, dihydrochloride)	R101Q0	H0M084(30-Sep-19)	\$775.00
1669004	Tolazoline Hydrochloride (300 mg)	R110S0	R012L0(30-Sep-19)	\$245.00
1672745	Tranexamic Acid (200 mg)	R095E0	R021K0(30-Sep-19)	\$245.00
1706712	Urea Related Compound A (15 mg) (Dicarbonimidic diamide)	R085X0	F045F0(30-Sep-19)	\$740.00

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