



Reference Material Certificate Product Information Sheet

Product Name:Calibration StandardLot Number:0006726546Product Number:ICM-630Lot Issue Date:09-Mar-2023

Storage Conditions: Store at Room Temperature (15° to 30°C). Light Sensitive. Expiration Date: 30-Apr-2027

silver nitrate (ICP grade) (as silver) 20.0 ± 0.1 µg/mL 007781-88-8 RM16792 aluminum nitrate nonahydrate (ICP grade) (as arsenic) 20.0 ± 0.1 µg/mL 010327-53-3 RM16380 arium nitrate (ICP grade) (as arsenic) 20.0 ± 0.1 µg/mL 010327-53-3 RM16380 arium nitrate (ICP grade) (as barium) 20.0 ± 0.1 µg/mL 000543-81-7 RM15901 arium nitrate (ICP grade) (as beryllium ocetate (ICP grade) (as beryllium) 20.0 ± 0.1 µg/mL 000543-81-7 RM10258 arium nitrate (ICP grade) (as calcium) 20.0 ± 0.1 µg/mL 000471-34-1 RM18534 arium nitrate hydrate (ICP grade) (as cadmium) 20.0 ± 0.1 µg/mL 010022-68-1 RM07888 arium nitrate hydrate (ICP grade) (as cobalt) 20.0 ± 0.1 µg/mL 010022-68-1 RM07888 arium nitrate hydrate (ICP grade) (as cobalt) 20.0 ± 0.1 µg/mL 010026-22-9 RM12660 arium nitrate hydrate (ICP grade) (as cobalt) 20.0 ± 0.1 µg/mL 010026-22-9 RM12660 arium nitrate hydrate (ICP grade) (as copper) 20.0 ± 0.1 µg/mL 007789-02-8 RM20523 arium nitrate (ICP grade) (as iron) 20.0 ± 0.1 µg/mL 010031-43-3 RM17671 arium nitrate (ICP grade) (as iron) 20.0 ± 0.1 µg/mL 007782-61-8 RM19841 arium nitrate (ICP grade) (as iron) 20.0 ± 0.1 µg/mL 007757-79-1 RM18921 arium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 µg/mL 01037-66-9 RM18819 arium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819 arium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 µg/mL 01037-66-9 RM13819						
aluminum nitrate nonahydrate (ICP grade) (as aussenic) 20.0 ± 0.1 μg/mL 001327-53-3 RM16380 aluminum) 20.0 ± 0.1 μg/mL 010022-31-8 RM15901 obergium nitrate (ICP grade) (as beryllium) 20.0 ± 0.1 μg/mL 000543-81-7 RM10258 obergium nitrate (ICP grade) (as beryllium) 20.0 ± 0.1 μg/mL 000543-81-7 RM10258 obergium acetate (ICP grade) (as calcium) 20.0 ± 0.1 μg/mL 000471-34-1 RM18534 obergium nitrate hydrate (ICP grade) (as cadmium) 20.0 ± 0.1 μg/mL 000471-34-1 RM18534 obergium nitrate hydrate (ICP grade) (as cobalt) 20.0 ± 0.1 μg/mL 010022-68-1 RM07888 obergium nitrate hoxahydrate (ICP grade) (as cobalt) 20.0 ± 0.1 μg/mL 010026-62-9 RM12660 obergium (III) nitrate nonahydrate (ICP grade) (as coper) 20.0 ± 0.1 μg/mL 007789-02-8 RM20523 obergium (III) nitrate hydrate (ICP grade) (as coper) 20.0 ± 0.1 μg/mL 010031-43-3 RM17671 oron (III) nitrate hydrate (ICP grade) (as iron) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 obergium nitrate (ICP grade) (as potassium) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 magnesium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 sodium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 sodium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 007631-99-4 RM18920 nickel (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 007446-08-7 RM17467 obed (III) nitrate (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-36-0 RM20749 selenium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007446-36-0 RM20749 selenium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007446-36-0 RM20749 selenium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 00780-55-6 RM15719 selenium metavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 00780-55-6 RM15719 selenium metavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 00780-55-6 RM15279	Component Name	Concentration	n	Uncertainty	CAS#	Analyte Lot
arsenic (III) oxide (ICP grade) (as arsenic) 20.0 ± 0.1 μg/mL 001327-53-3 RM16380 20.1 μg/mL 001022-31-8 RM15901 20.1 μg/mL 000543-81-7 RM15901 20.1 μg/mL 000543-81-7 RM15901 20.0 ± 0.1 μg/mL 000543-81-7 RM10258 20.0 ± 0.1 μg/mL 000471-34-1 RM18534 20.0 ± 0.1 μg/mL 010022-68-1 RM07888 20.0 ± 0.1 μg/mL 000788-02-8 RM2660 20.0 ± 0.1 μg/mL 007789-02-8 RM2660 20.0 ± 0.1 μg/mL 007789-02-8 RM20523 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 20.0 ± 0.1 μg/mL 007782-61-8 RM18921 20.0 ± 0.1 μg/mL 007767-79-1 RM18921 20.0 ± 0.1 μg/mL 007631-99-4 RM18920 20.0 ± 0.1 μg/mL 007641-99-4 RM18920 20.0 ± 0.1 μg/mL 007641-99-4 RM18920 20.0 ± 0.1 μg/mL 007446-08-4 RM13619 20.0 ± 0.1 μg/mL 007446-08-4 RM17467 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 20.0 ± 0.1 μg/mL 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 20.0 ± 0.1 μg/mL 20.0 25 0.1 μg/mL 20.0 26 0.1 μg/mL 20.0 27 0.1 μg/mL 20.0 077446-08-4 RM15710 20.0 27 0.1 μg/mL	silver nitrate (ICP grade) (as silver)	20.0	±	0.1 μg/mL	007761-88-8	RM16792
20.0 ± 0.1 µg/mL 010022-31-8 RM15901 20.0 ± 0.1 µg/mL 000543-81-7 RM10258 20.0 20.0 ± 0.1 µg/mL 000543-81-7 RM10258 20.0	aluminum nitrate nonahydrate (ICP grade) (as aluminum)	20.0	±	0.1 µg/mL	007784-27-2	RM19676
Deryllium acetate (ICP grade) (as beryllium) 20.0 ± 0.1 μg/mL 000543-81-7 RM10258 Calcium carbonate (ICP grade) (as calcium) 20.0 ± 0.1 μg/mL 000471-34-1 RM18534 Calcium carbonate (ICP grade) (as cadmium) 20.0 ± 0.1 μg/mL 010022-68-1 RM07888 Calcium carbonate (ICP grade) (as cobalt) 20.0 ± 0.1 μg/mL 010026-22-9 RM12660 Calcium (III) nitrate hexahydrate (ICP grade) (as cobalt) 20.0 ± 0.1 μg/mL 007789-02-8 RM20523 RM20523 Calcium (III) nitrate hydrate (ICP grade) (as copper) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 Calcium (III) nitrate hydrate (ICP grade) (as copper) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 Calcium (III) nitrate hexahydrate (ICP grade) (as iron) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 RM20523 Calcium (III) nitrate hexahydrate (ICP grade) (as manganesium) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 RM20178 RM20178 Calcium nitrate hexahydrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 Calcium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 Calcium nitrate hexahydrate (ICP grade) (as inckel) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 Calcium (III) nitrate hexahydrate (ICP grade) (as inckel) 20.0 ± 0.1 μg/mL 010099-74-8 RM13861 Calcium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 Calcium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 Calcium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 Calcium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372 Calcium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372 Calcium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372 Calcium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372 Calcium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6	arsenic (III) oxide (ICP grade) (as arsenic)	20.0	±	0.1 μg/mL	001327-53-3	RM16380
calcium carbonate (ICP grade) (as calcium) 20.0 ± 0.1 µg/mL 010022-68-1 RM07888 cadmium nitrate hydrate (ICP grade) (as cobalt) 20.0 ± 0.1 µg/mL 010022-68-1 RM07888 cobalt nitrate hexahydrate (ICP grade) (as cobalt) 20.0 ± 0.1 µg/mL 010026-22-9 RM12660 chromium (III) nitrate nonahydrate (ICP grade) (as copper) 20.0 ± 0.1 µg/mL 007789-02-8 RM20523 chromium) 20.0 ± 0.1 µg/mL 010031-43-3 RM17671 cron (III) nitrate hydrate (ICP grade) (as copper) 20.0 ± 0.1 µg/mL 007782-61-8 RM19841 cron (III) nitrate, ferric nitrate (ICP grade) (as iron) 20.0 ± 0.1 µg/mL 007757-79-1 RM18921 chromium nitrate hexahydrate (ICP grade) (as manganesium) 20.0 ± 0.1 µg/mL 013446-18-9 RM20178 chromium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 µg/mL 010377-66-9 RM13819 chromium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 µg/mL 007631-99-4 RM18920 chromium nitrate (ICP grade) (as nickel) 20.0 ± 0.1 µg/mL 007631-99-4 RM18920 chromium nitrate (ICP grade) (as nickel) 20.0 ± 0.1 µg/mL 013478-00-7 RM17467 chromium nitrate (ICP grade) (as lead) 20.0 ± 0.1 µg/mL 01099-74-8 RM13361 chromium (ICP grade) (as selenium) 20.0 ± 0.1 µg/mL 007440-36-0 RM20749 chromium (ICP grade) (as selenium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium (ICP grade) (as selenium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007446-08-4 RM15710 chromium netavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 00745-1 RM136-1 RM14579 chr	barium nitrate (ICP grade) (as barium)	20.0	±	0.1 μg/mL	010022-31-8	RM15901
cadmium nitrate hydrate (ICP grade) (as cadmium) 20.0 ± 0.1 μg/mL 010022-68-1 RM07888 cobalt nitrate hexahydrate (ICP grade) (as cobalt) 20.0 ± 0.1 μg/mL 010026-22-9 RM12660 chromium (III) nitrate horahydrate (ICP grade) (as copper) 20.0 ± 0.1 μg/mL 007789-02-8 RM20523 chromium) 20.0 ± 0.1 μg/mL 010031-43-3 RM17671 chromium) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 chromium) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 chromium) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 chromium) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 chromium) 20.0 ± 0.1 μg/mL 010377-66-9 RM20178 chromium) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 chromium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 013478-00-7 RM18920 chromiu	beryllium acetate (ICP grade) (as beryllium)	20.0	±	0.1 μg/mL	000543-81-7	RM10258
Cobalt nitrate hexahydrate (ICP grade) (as cobalt) 20.0 ± 0.1 μg/mL 0.1 μg/mL 010026-22-9 RM12660 Chromium (III) nitrate nonahydrate (ICP grade) (as copper) 20.0 ± 0.1 μg/mL 007789-02-8 RM20523 Chromium) 20.0 ± 0.1 μg/mL 010031-43-3 RM17671 Gron (III) nitrate hydrate (ICP grade) (as copper) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 Cotassium nitrate (ICP grade) (as potassium) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 Magnesium nitrate hexahydrate (ICP grade) (as manganesium) 20.0 ± 0.1 μg/mL 013446-18-9 RM20178 Magnesium nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 Sodium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 μg/mL 007631-99-4 RM18920 Nickel (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 Lead (II) nitrate (ICP grade) (as lead) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 Selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 Challium (I) nitrate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM1	calcium carbonate (ICP grade) (as calcium)	20.0	±	0.1 μg/mL	000471-34-1	RM18534
chromium (III) nitrate nonahydrate (ICP grade) (as 20.0 ± 0.1 μg/mL 007789-02-8 RM20523 chromium) copper (II) nitrate hydrate (ICP grade) (as copper) 20.0 ± 0.1 μg/mL 010031-43-3 RM17671 cron (III) nitrate, ferric nitrate (ICP grade) (as iron) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 cotassium nitrate (ICP grade) (as potassium) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 magnesium nitrate hexahydrate (ICP grade) (as 20.0 ± 0.1 μg/mL 013446-18-9 RM20178 magnesium) manganese (II) nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 sodium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 μg/mL 007631-99-4 RM18920 nickel (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 lead (II) nitrate (ICP grade) (as lead) 20.0 ± 0.1 μg/mL 010099-74-8 RM13361 antimony (ICP grade) 20.0 ± 0.1 μg/mL<	cadmium nitrate hydrate (ICP grade) (as cadmium)	20.0	±	0.1 μg/mL	010022-68-1	RM07888
chromium) copper (II) nitrate hydrate (ICP grade) (as copper) 20.0 ± 0.1 μg/mL 010031-43-3 RM17671 gron (III) nitrate, ferric nitrate (ICP grade) (as iron) 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 potassium nitrate (ICP grade) (as potassium) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 magnesium nitrate hexahydrate (ICP grade) (as 20.0 ± 0.1 μg/mL 013446-18-9 RM20178 magnesium) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 sodium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 μg/mL 007631-99-4 RM18920 nickel (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 lead (II) nitrate (ICP grade) (as lead) 20.0 ± 0.1 μg/mL 010099-74-8 RM13361 antimony (ICP grade) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 thallium (I) nitrate (ICP grade) (as thallium) 20.0 ± 0.1 μg/mL 00709-35-6 RM12372	cobalt nitrate hexahydrate (ICP grade) (as cobalt)	20.0	±	0.1 μg/mL	010026-22-9	RM12660
20.0 ± 0.1 μg/mL 007782-61-8 RM19841 20.0 ± 0.1 μg/mL 007782-61-8 RM19841 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 20.0 ± 0.1 μg/mL 013446-18-9 RM20178 RM20178 20.0 ± 0.1 μg/mL 013478-60-9 RM13819 RM18920 20.0 ± 0.1 μg/mL 013478-60-9 RM18920 RM18920 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 RM18920 20.0 ± 0.1 μg/mL 013478-00-7 RM17467	chromium (III) nitrate nonahydrate (ICP grade) (as chromium)	20.0	±	0.1 μg/mL	007789-02-8	RM20523
cotassium nitrate (ICP grade) (as potassium) 20.0 ± 0.1 μg/mL 007757-79-1 RM18921 magnesium nitrate hexahydrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 013446-18-9 RM20178 magnesium) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 sodium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 μg/mL 007631-99-4 RM18920 nickel (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 lead (II) nitrate (ICP grade) (as lead) 20.0 ± 0.1 μg/mL 010099-74-8 RM13361 leantimony (ICP grade) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 thallium (I) nitrate (ICP grade) (as thallium) 20.0 ± 0.1 μg/mL 010102-45-1 RM14579 ammonium metavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372	copper (II) nitrate hydrate (ICP grade) (as copper)	20.0	±	0.1 μg/mL	010031-43-3	RM17671
magnesium nitrate hexahydrate (ICP grade) (as 20.0 ± 0.1 μg/mL 013446-18-9 RM20178 magnesium) magnese (II) nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 sodium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 μg/mL 007631-99-4 RM18920 nickel (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 lead (II) nitrate (ICP grade) (as lead) 20.0 ± 0.1 μg/mL 010099-74-8 RM13361 antimony (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 thallium (I) nitrate (ICP grade) (as thallium) 20.0 ± 0.1 μg/mL 010102-45-1 RM14579 ammonium metavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372	iron (III) nitrate, ferric nitrate (ICP grade) (as iron)	20.0	±	0.1 μg/mL	007782-61-8	RM19841
magnesium) manganese (II) nitrate (ICP grade) (as manganese) 20.0 ± 0.1 μg/mL 010377-66-9 RM13819 sodium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 lead (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 010099-74-8 RM13361 leantimony (ICP grade) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 leadlium (I) nitrate (ICP grade) (as thallium) 20.0 ± 0.1 μg/mL 010102-45-1 RM14579 leadlium (IV) nitrate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 010102-45-1 RM14579 leadlium (IV) oxide (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372	potassium nitrate (ICP grade) (as potassium)	20.0	±	0.1 μg/mL	007757-79-1	RM18921
Sodium nitrate (ICP grade) (as sodium) 20.0 ± 0.1 μg/mL 007631-99-4 RM18920	magnesium nitrate hexahydrate (ICP grade) (as magnesium)	20.0	±	0.1 μg/mL	013446-18-9	RM20178
nickel (II) nitrate hexahydrate (ICP grade) (as nickel) 20.0 ± 0.1 μg/mL 013478-00-7 RM17467 lead (II) nitrate (ICP grade) (as lead) 20.0 ± 0.1 μg/mL 010099-74-8 RM13361 antimony (ICP grade) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 thallium (I) nitrate (ICP grade) (as thallium) 20.0 ± 0.1 μg/mL 010102-45-1 RM14579 ammonium metavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372	manganese (II) nitrate (ICP grade) (as manganese)	20.0	±	0.1 μg/mL	010377-66-9	RM13819
lead (II) nitrate (ICP grade) (as lead) 20.0 ± 0.1 μg/mL 010099-74-8 RM13361 antimony (ICP grade) selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 ± 0.1 μg/mL 007446-08-4 RM15710 shallium (I) nitrate (ICP grade) (as thallium) 20.0 ± 0.1 μg/mL 010102-45-1 RM14579 ammonium metavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 μg/mL 007803-55-6 RM12372	sodium nitrate (ICP grade) (as sodium)	20.0	±	0.1 μg/mL	007631-99-4	RM18920
rantimony (ICP grade) 20.0 \pm 0.1 μ g/mL 007440-36-0 RM20749 selenium (IV) oxide (ICP grade) (as selenium) 20.0 \pm 0.1 μ g/mL 007446-08-4 RM15710 thallium (I) nitrate (ICP grade) (as thallium) 20.0 \pm 0.1 μ g/mL 010102-45-1 RM14579 rammonium metavanadate (ICP grade) (as vanadium) 20.0 \pm 0.1 μ g/mL 007803-55-6 RM12372	nickel (II) nitrate hexahydrate (ICP grade) (as nickel)	20.0	±	0.1 μg/mL	013478-00-7	RM17467
selenium (IV) oxide (ICP grade) (as selenium) 20.0 \pm 0.1 μ g/mL 007446-08-4 RM15710 thallium (I) nitrate (ICP grade) (as thallium) 20.0 \pm 0.1 μ g/mL 010102-45-1 RM14579 ammonium metavanadate (ICP grade) (as vanadium) 20.0 \pm 0.1 μ g/mL 007803-55-6 RM12372	lead (II) nitrate (ICP grade) (as lead)	20.0	±	0.1 μg/mL	010099-74-8	RM13361
thallium (I) nitrate (ICP grade) (as thallium) 20.0 \pm 0.1 μ g/mL 010102-45-1 RM14579 ammonium metavanadate (ICP grade) (as vanadium) 20.0 \pm 0.1 μ g/mL 007803-55-6 RM12372	antimony (ICP grade)	20.0	±	0.1 μg/mL	007440-36-0	RM20749
ammonium metavanadate (ICP grade) (as vanadium) 20.0 ± 0.1 µg/mL 007803-55-6 RM12372	selenium (IV) oxide (ICP grade) (as selenium)	20.0	±	0.1 μg/mL	007446-08-4	RM15710
	thallium (I) nitrate (ICP grade) (as thallium)	20.0	±	0.1 μg/mL	010102-45-1	RM14579
zinc nitrate hexahydrate (ICP grade) (as zinc) 20.0 ± 0.1 μg/mL 010196-18-6 RM12069	ammonium metavanadate (ICP grade) (as vanadium)	20.0	±	0.1 μg/mL	007803-55-6	RM12372
	zinc nitrate hexahydrate (ICP grade) (as zinc)	20.0	±	0.1 μg/mL	010196-18-6	RM12069

Matrix: 5% nitric acid with trace hydrofluoric and tartaric acids in water

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17034 / ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s) when available. The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.



Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.aqilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative

