



Analytical Quality Assurance, Standard for Calcium

Preparation of a standard solution for Calcium

Reagents:

Cat.No. 102121 Calcium nitrate tetrahydrate for analysis

Cat.No. 116754 Water for analysis

Preparation of a standard solution:

Dissolve 2.946 g of Calcium nitrate tetrahydrate in a calibrated or conformity-checked 500-ml volumetric flask and make up to the mark with distilled water. The stock solution prepared according to this procedure has a concentration of 1000 mg/l calcium.

Further investigational concentrations may be prepared from this stock solution by diluting accordingly.

Stability:

The stock solution of 1000 mg/l remains stable for one week. The diluted investigational solutions remain stable for one day.

For use with test kits:		Measuring range in mg/l Ca
110083	MQuant™ Calcium Test	10 - 100
111110	MColortest™ Calcium Cell Test	2 - 200
116993	Reflectoquant® Calcium Test	2.5 - 45.0
116125	Reflectoquant® Calcium Test	5 - 125
100858	Spectroquant® Calcium Cell Test	10 - 250
100049	Spectroquant® Calcium Test	0.20 - 4.00
114815	Spectroquant® Calcium Test	5 - 160



Ordering Information

Product	Catalog No.
Calcium nitrate tetrahydrate for analysis EMSURE® ACS	102121
Water for analysis EMSURE®	116754
Calcium Test Method: colorimetric with test strips and reagents 10 - 25 - 50 - 100 mg/l Ca ²⁺ MQuant®	110083
Calcium Test Method: titrimetric with titration pipette MQuant®	111110
Calcium Test for RQflex® 10 and RQflex® 10 plus Method: reflectometric with test strips and reagents 2.5 - 45.0 mg/l Ca Reflectoquant®	116993
Calcium Test Method: reflectometric with test strips 5 - 125 mg/l Ca Reflectoquant®	116125
Calcium Cell Test Method: photometric 10 - 250 mg/l Ca 14 - 350 mg/l CaO 25 - 624 mg/l CaCO ₃ Spectroquant®	100858
Calcium Test Method: photometric 0.20 - 4.00 mg/l Ca Spectroquant®	100049
SQ Calcium Test Method: photometric 1.0 - 160 mg/l Ca 1.4 - 224 mg/l CaO 2.5 - 400 mg/l CaCO ₃ Spectroquant®	114815