



Calcium in Water

Reflectometric determination after reaction with glyoxal bis (2-hydroxyanil)

Reagents:

Cat.No. 116993 Reflectoquant® Calcium Test

Cat.No. 116970 Reflectometer RQflex®

Cat.No. 116955 Reflectometer RQflex® plus

Sample preparation:

The sample can be analysed in its original form.

Analysis:

Dip the test strip into the sample for approx. 2 seconds and then set aside with the reaction zones facing upwards. Using the plastic syringe, transfer 6 ml of sample solution (20 - 40 °C) to the test vessel. Add 1 level blue microspoon of reagent Ca-1, swirl and allow to dissolve. Add 10 drops of reagent Ca-2 and swirl again. Press the reflectometer START button and simultaneously place the test strip in the pretreated sample solution for 90 seconds, ensuring that both reaction zones are immersed. Allow excess liquid to run off via the long edge of the strip on to an absorbent paper towel.

Measure the strip in the reflectometer. The value [mg/l] will be stored automatically. (Please refer to the RQflex® operating instructions and the package insert of the Reflectoquant® Calcium Test.)

Results - comparison with titrimetric and photometric method:

Sample	Reflectoquant [mg/l]	Titration [mg/l]	Photometry* [mg/l]
1	14.9	14.9	-
2	20.2	19.1	-
3	15.8	13.9	-
4	5.5	5.1	-
5	18.5	17.2	-
6	36.5	31.2	-
7	110	-	113
8	75	-	83
9	128	-	122

*Spectroquant® Calcium Test, Cat.No. 114815



Application

Ordering Information

Product	Catalog No.
Calcium Test Method: reflectometric with test strips and reagents Reflectoquant®	116993
Reflectometer RQflex® 10 Reflectoquant®	116970
Reflectometer Reflectoquant®	116955
Calcium Test Method: photometric Spectroquant®	114815