

CALCIUM CALIBRATOR

For Usage With;
Immunoturbidimetric Systems

REF: A1014C CALCIUM Calibrator	1 x 3 mL
A10142C CALCIUM Calibrator	3 x 1 mL

Instruction inside package must be carefully followed at usage. Quality of results cannot be warranted if there are any deviations from the instructions in this package. This calibrator is for *in vitro* diagnostic (IVD) use only.

INTENDED USE

Calibrator for automated systems. CALCIUM Calibrator is for use in the calibration of quantitative immunoturbidimetric method CALCIUM automated clinical chemistry. CALCIUM Calibrators are lyophilized materials contains human serum. The concentrations of the calibrator components have been adjusted to ensure optimal calibration of the appropriate immunoturbidimetric methods on clinical chemistry analyzers.

SUMMARY AND PRINCIPLE

The use of calibrator materials is indicated as an objective assessment of the precision of methods and techniques in use and is an integral part of good laboratory practices. One level of calibrator is available to allow calibration intended automated or semi-automated biochemistry analyzers.

Beinquality CALCIUM Immunoturbidimetric Calibrator (1 Level)

Package: 5 x 5 mL / 5 x 4 mL **Lyophilized**

For use with;

- CALCIUM Direct Immunoturbidimetric reagents
- CALCIUM Indirect Immunoturbidimetric reagents

CONTENTS / MATERIALS PROVIDED

Beinquality CALCIUM Calibrator (1 Level) contains the human serum. The calibrator is provided in lyophilized form for increased stability. Sodium Azide (0.09 %) is added as a preservative.

MATERIALS REQUIRED BUT NOT PROVIDED

1. Class A volumetric variable or fixed pipette for delivery of 5 or 4 mL.
2. Distilled or deionized water meeting specifications equivalent to USP purified water.
3. For immunoturbidimetric systems: CALCIUM Reagent Set

STANDARDIZATION AND ASSIGNMENT OF VALUES

The traceability of the method is verified using

NGSP Certificate of Traceability. The set point value of the calibrators were obtained by assaying representative samples of the entire lot against materials referenced to NGSP values. The calibrator values were derived from replicate analyses and are specific for this lot of product. Product has been tested/confirmed and Immunoturbidimetric method. Variations over time and between laboratories may be caused by differences in laboratory technique, instrumentation and reagents or by manufacturer test method modifications. It is recommended that each laboratory establish its own target values and use those provided only as guides.

PRECAUTIONS (General and Users)

IVD

For *in Vitro* Diagnostic Use.


Do not use components beyond the expiration date.

Contains sodium azide.

EUH032 Contact with acids liberates very toxic gas.

Human source material.

Calibrator can contain preservatives (as Sodium Azide or others) which total concentration is lower than the limits mentioned in Directive 67/548/ CEE and 88/379 CEE.

 This product should be treated the same as patient specimens and run in accordance with the instructions accompanying the instrument, kit or reagent being used. Each plasma donor unit used in the preparation of this product has been tested by an FDA-approved method and found nonreactive for the presence of HBsAg, HCV, HIV-Ag and antibody to HIV 1/2. Because no known test method can offer complete assurance that hepatitis B virus, Human Immunodeficiency Virus (HIV) or other infectious agents are absent, all human-based products should be handled in accordance with good laboratory practices using appropriate precautions.

Safety Data Sheets (SDS) are available at www.beinquality.com.tr or contact your local representative. Emergency Phone Number: In emergency situation please contact the National Poison Solidarity Center (Turkey) for information in Turkish:(114) (24 hours/7 days). Please contact with Beinquality for information in English: +(90) 212 447 00 75 (Turkey) (7:30–17:50/except weekends)

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**For Usage With;
Immunturbidimetric Systems**

STORAGE AND STABILITY

1. Beinquality CALCIUM Direct Immunturbidimetric Calibrator (1 Level) are stable until the expiration date when stored +2 /+8 °C.
2. Once opened and diluted calibrators are stable **2 days** when stored at dark place +2/+8°C.
3. Once opened and diluted calibrators are stable **12 Hours** when stored at +15/+25°C.
4. Diluted calibrators are stable **30 days** when stored at (-15)-(-25)°C (when frozen once)
5. Reconstitute and store tightly capped in a dark place, kept free of contamination.
6. Criterion for the stability data stated by Beinquality: Recovery values are within ±10% of initial value.

PREPARATION OF CALIBRATOR

1. Using a volumetric pipet, reconstitute each vial with 5 or 4 mL of distilled or deionized water.
2. After reconstitution replace the stopper and allow the calibrator to stand for 30 minutes, swirling occasionally.
3. Some methods may use different volumes for reconstitution.
4. Dissolve the contents of the vial by swirling gently to avoid the formation of foam.
5. Portioning (allocation) is not allowed. Never divide any CALCIUM Calibrator into small portioning.
6. **Avoid storage at R.T. at segments inside priority sections** after aspiration!
7. After reconstitution with deionized water; store calibrator inside **Sample Cup** and close tightly, store at +2 /+8 °C for 2 days. Don't transfer back to vial.
8. Remix your calibrators just prior to use. Before sampling, gently invert the vial several times to ensure homogeneity.
9. Do NOT mix by vortex. Don't shake.

INDICATIONS OF INSTABILITY OR DETERIORATION

Presence of extreme turbidity or microbial growth may indicate deterioration.

LIMITATIONS & PRECAUTIONS

1. Check expiration date of the product on the vial. Discard outdated products.
2. Repeated thaw process is not allowed.
3. If there is evidence of microbial contamination or excessive turbidity in the reconstituted product, discard the vial.
4. Do not pipette by mouth.
5. Avoid contact with skin and mucous membranes.

6. This product should not be disposed in general waste, but should be disposed with infectious medical waste.
7. SDS can be obtained at www.beinquality.com.tr, by calling +(90) 212 447 00 75 (Turkey), or by calling your local supplier.

ANALYTIC PECALCIUMORMANCE

This product is a freeze-dried product. Product manufactured under rigid quality calibrator standards. To obtain consistent vial-to-vial assay values and optimum uncertainty values the calibrators requires proper storage and handling as described.

The concentrations or % values of the calibrator components are lot-specific. The exact calibrator values are given in the value sheets.

BIBLIOGRAPHY

1. Council Directive (2000/54/EC). Official Journal of the European Communities No. L262 from Oct. 17, 2000.
2. EU-Dir 1999/11 Commission Directive of 8 March 1999 adapting to technical progress the principles of Good Laboratory Practice as specified in Council Directive 87/18/EEC
3. US Department of Labor, Occupational Safety and Health Administration, 29 CFR Part 1910.1030, *Occupational Exposure to Bloodborne Pathogens.*

TRADEMARKS

Beinquality CALCIUM Calibrator is a trademark of Beinquality Sağlık Sanayi ve Ticaret A.Ş. In various jurisdictions.

Customer Service:

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GLOSSARY OF HARMONIZED SYMBOLS

IVD	<i>In Vitro</i> Diagnostic Medical Device
LOT	Lot number
REF	Reference Number (Catalog No.)
GTIN	Global Trade Item Number
CAL	Calibrator
VALUE	Value

PRODUCT OF TURKEY	Product of Turkey
CONVENTIONAL UNITS	Conventional Units



Caution



Manufacturer



Expiration date



Temperature limitation



Consult instructions for use