

# ZINC CALIBRATOR

For Usage With;  
Immunturbidimetric Systems

REF: A1048Z ZINC Calibrator	5 x 3 mL
A1048ZZ ZINC Calibrator	50 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. ZINC Calibrator is for use in the calibration of quantitative immunturbidimetric method ZINC automated clinical chemistry. ZINC Calibrators are contains human serum. The concentrations of the calibrator components have been adjusted to ensure optimal calibration of the appropriate immunturbidimetric 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 ZINC Immunturbidimetric Calibrator**

Package: 1 x 3 or 3 x 1 mL Liquid

For use with;

- ZINC Direct Immunturbidimetric reagents
- ZINC Indirect Immunturbidimetric reagents

## CONTENTS / MATERIALS PROVIDED

Beinquality ZINC Calibrator do not contains the human serum.

## MATERIALS REQUIRED BUT NOT PROVIDED

1. Class A volumetric pipette for liquid transfer.
2. Distilled or deionized water meeting specifications equivalent to USP purified water.
3. For immunturbidimetric systems: ZINC 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 Immunturbidimetric 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](http://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)

## STORAGE AND STABILITY

1. Beinquality ZINC Direct Immunturbidimetric Calibrator are stable until the expiration date when stored +2/+8 °C.
2. Once opened and diluted calibrators are stable **45 days** when stored at dark place +2/+8°C.
3. Reconstitute and store tightly capped in a dark place, kept free of contamination.

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4. Criterion for the stability data stated by Beinquality: Recovery values are within  $\pm 10\%$  of initial value.

### PREPARATION OF CALIBRATOR

1. The contents of the vial by swirling gently to avoid the formation of foam.
2. Portioning (allocation) is not allowed. Never divide any ZINC Calibrator into small portioning.
3. **Avoid storage at R.T. at segments inside priority sections** after aspiration!
4. After store calibrator inside **Sample Cup** and close tightly, store at  $+2 / +8$  °C for 2 days. Don't transfer back to vial.
5. Remix your calibrators just prior to use. Before sampling, gently invert the vial several times to ensure homogeneity.
6. 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](http://www.beinquality.com.tr), by calling +(90) 212 447 00 75 (Turkey), or by calling your local supplier.

### ANALYTIC PERFORMANCE

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

### Customer Service:

Contact to:

**Beinquality Sağlık Sanayi ve Ticaret A.Ş.**



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## GLOSSARY OF HARMONIZED SYMBOLS

<b>IVD</b>	<i>In Vitro</i> Diagnostic Medical Device
<b>LOT</b>	Lot number
<b>REF</b>	Reference Number (Catalog No.)
<b>GTIN</b>	Global Trade Item Number
<b>CAL</b>	Calibrator
<b>VALUE</b>	Value
<b>PRODUCT OF TURKEY</b>	Product of Turkey
<b>CONVENTIONAL UNITS</b>	Conventional Units



Caution



Manufacturer



Expiration date



Temperature limitation



Consult instructions for use