

**K-ASSAY®**

# Liquid ITA Control

(For **K-ASSAY®** Immunoturbidimetric Assays)

Lot G745, Exp. 2018-12-31

Cat. No. K49C-2M and K49C-4M

**INTENDED USE**

The **K-ASSAY®** Liquid ITA Control is intended to be used as a consistent test sample of known concentration for monitoring the performance of **K-ASSAY®** immunoturbidimetric assays (ITA) for the listed constituents.

FOR *IN VITRO* DIAGNOSTIC USE.**SUMMARY**

The controls in this set are human serum, tested and found negative for HBsAg and antibodies to HCV and HIV. They contain known quantities of the listed constituents. They are to be used as controls with the **K-ASSAY®** immunoturbidimetric assays.

**SET COMPOSITION**K49C-2M

Level 1	Human serum (liquid)	1 x 2 mL
Level 2	Human serum (liquid)	1 x 2 mL
	Sodium azide	< 0.1%

K49C-4M

Level 1	Human serum (liquid)	2 x 2 mL
Level 2	Human serum (liquid)	2 x 2 mL
	Sodium azide	< 0.1%

Liquid ITA Control, Levels 1 and 2, contain pooled human serum with assigned values for the listed constituents.

**WARNINGS AND PRECAUTIONS**

For *in vitro* diagnostic use only. Rx only.

Not to be used internally in humans or animals. Normal precautions exercised in handling laboratory reagents should be followed.

Controls contain pooled human serum. The serum has been tested and found non-reactive for the presence of HBsAg and antibody to HCV and HIV by an FDA accepted method. However, it is not possible to guarantee that any human source material is free of these infectious agents.

Therefore, all products containing human serum should be handled in accordance with good laboratory practices using appropriate precautions as described in the CDC/NIH Manual, "Biosafety in Microbiological and Biomedical Laboratories," 2nd ed., 1988, HHS Publication No. (CDC) 88-8395.

Do not mix or use controls from one test set with those from a different lot number.

**K-ASSAY®** Liquid ITA Control

Do not use controls past their expiration date stated on each control container label.

Controls in this set contain sodium azide as a preservative. Sodium azide may form explosive compounds in metal drain lines. When disposing of controls through plumbing fixtures, flush with copious amounts of water. For further information, refer to "Decontamination of Laboratory Sink Drains to Remove Azide Salts," in the Manual Guide-Safety Management No. CDC-22 issued by the Centers for Disease Control, Atlanta, Georgia.

Do not pipette by mouth. Avoid ingestion and contact with skin.

**CONTROL PREPARATION**

Controls are liquid and ready to use.

**STORAGE AND HANDLING**

Store controls at 2-8°C. Return all controls to 2-8°C promptly after use. Unopened controls can be used for up to 18 months from the date of manufacture, as indicated by the expiration date on the package and bottle labels.

**CONTROL STABILITY**

Opened controls can be used for 1 month if stored at 2-8°C.

Discard controls if they become contaminated. Evidence of cloudiness or particulate material in solution is cause to discard.

**PROCEDURE****Materials Supplied**K49C-2M

Level 1	Human serum	1 x 2 mL
Level 2	Human serum	1 x 2 mL

K49C-4M

Level 1	Human serum	2 x 2 mL
Level 2	Human serum	2 x 2 mL

**Materials Required But Not Supplied****K-ASSAY®** Immunoturbidimetric Assay Kits**K-ASSAY®** Calibrator

Two-reagent clinical chemistry autoanalyzer capable of accurate absorbance reading at 340 and 700 nm, accurately dispensing the required volumes, and maintaining 37°C.

## Assay Procedure

NOTE: Allow all reagents and specimens to come to room temperature. Mix all reagents gently before using.

The **K-ASSAY**® Liquid ITA Control is assayed using the same procedure as the patient test samples run in the test procedure. See package insert from the **K-ASSAY**® immunoturbidimetric assay kits.

## LIMITATIONS OF PROCEDURE

Accurate and reproducible results are dependent upon properly functioning instruments, reagents, and good laboratory technique. Erroneous results can occur from improper storage and technical errors associated with assay procedures.

This product is intended for use as an assayed control for quantitative assays of listed constituents in human serum. This product is not intended for use as a calibrator.

The expected values for the **K-ASSAY**® Liquid ITA Control are continually being revised through ongoing quality assurance. As a result, the expected values may change from lot to lot. Please refer to the package insert for each lot for the appropriate control values.

## EXPECTED RESULTS











**KAMIYA BIOMEDICAL COMPANY** has established the expected values. Values listed were obtained using a Hitachi 917 and **K-ASSAY**® reagents and calibrators. Subsequent modifications in instrument, reagent, or procedure may invalidate these results. The assignment of mean values was derived from analysis of vials representative of the entire lot.

Values listed are specific for each lot only. Verify that the lot numbers on the vials of Liquid ITA Control correspond to the lot numbers listed for the Assay Data.

The Expected Range of the Mean is provided to assist the laboratory until it has established its own mean and standard

deviation. It is considered good laboratory practice for each laboratory to establish its own mean and standard deviation for its test methods. The indicated Mean and Expected Range of the Mean should serve as a guide in assessing the performance of each test method.

## LABELING SYMBOLS

	Lot Number
	Control
	Expiration or "Use By" Date
	Catalog Number
	For <i>In Vitro</i> Diagnostic Use
	2-8°C Temperature Limitation. Store between 2 and 8 degrees C
	Potential Human Biohazard
	Manufacturer
	Consult Package Insert for Instructions for Use
	Authorized Representative in the European Community

## EU AUTHORIZED REPRESENTATIVE





### Advena Ltd.

Tower Business Centre, 2<sup>nd</sup> Flr.,  
Tower Street, Swatar, BKR 4013 Malta

## ORDERING / PRICING / TECHNICAL INFORMATION



### KAMIYA BIOMEDICAL COMPANY

12779 Gateway Drive  
Seattle, WA 98168 USA  
TEL: (206) 575-8068 / (800) 526-4925  
FAX: (206) 575-8094

## ASSAY DATA

Values are standardized to the CAP/BCR/IFCC Reference Prep. for Proteins in Human Serum (RPPHS), lot 91/0619.

ASSAY	LEVEL 1 - LOT G745, EXP. 2018-12-31		LEVEL 2 - LOT G745, EXP. 2018-12-31	
	MEAN (mg/dL)	RANGE (mg/dL)	MEAN (mg/dL)	RANGE (mg/dL)
Alpha-1 Acid Glycoprotein	79	63 - 95	124	112 - 136
Alpha-1 Anti-Trypsin	118	94 - 142	182	164 - 200
C-Reactive Protein	1.0	0.7 - 1.3	3.9	3.4 - 4.4
Complement C3	93	74 - 112	235	211 - 259
Complement C4	16	13 - 19	43	39 - 47
Haptoglobin	105	84 - 126	221	199 - 243
IgA	164	131 - 197	420	378 - 462
IgG	852	682 - 1,022	2,332	2,099 - 2,565
IgM	69	55 - 83	182	164 - 200
Prealbumin	21	17 - 25	39	35 - 43
Transferrin	259	207 - 311	453	408 - 498

The expected values for the **K-ASSAY**® Liquid ITA Control are continually being revised through ongoing quality assurance. Please refer to the package insert included with each control set for the most appropriate control values. Recovered values may be method dependent. The variations which can occur over time and between laboratories may be attributed to differences in laboratory technique, instrumentation, reagent lot, method modifications, and other systematic errors including random errors.

Printed July 2017