

# Gentian Cystatin C

## Gentian Cystatin C Calibrator

REF 1012

This document describes the general use of the product above and is applicable for USA only. For instrument specific settings, please refer to the application notes available upon request to [marketing@gentian.com](mailto:marketing@gentian.com).

### Intended use

The Gentian Cystatin C Immunoassay is an *in-vitro* diagnostic test for quantitative determination of cystatin C in human serum and plasma. The measurement of cystatin C is used in the diagnosis and treatment of renal diseases.

### Calibrator indication for use

The Gentian Cystatin C Calibrator is intended to be used to establish a calibration curve for measuring Cystatin C concentration in human serum or plasma with the Gentian Cystatin C Immunoassay.

### Principles of the procedure

Human serum or plasma sample is mixed with cystatin C immunoparticles. Cystatin C from the sample aggregates with anti-cystatin C antibodies from the immunoparticles solution. The complex particles created absorb light, and by turbidimetry the absorption is related to cystatin C concentration via interpolation on an established standard calibration curve.

### Composition

The Gentian Cystatin C Calibrator is a delipidated human serum pool spiked with human cystatin C. Antibiotics are used as preservation.

### Warnings and precautions

For *in vitro* diagnostic use by laboratory professionals.

Caution: Federal law restricts this device to sale by or on the order of a physician.

1. Contains substances from human or animal origin and should be considered as potentially infectious material. Serum used in Gentian Cystatin C Controls and Calibrators is tested for hepatitis HBsAG, anti-HCV, anti-HIV1 and anti-HIV2 and found to be negative. Handle with caution and discard following local regulations.
2. Contains antibiotics and must be handled with due caution.
3. The sodium azide concentration of the assay is not characterized as hazardous. Although, accumulated NaN<sub>3</sub> in lead and copper pipes may cause generation of explosive metal azides. To prevent this, rinse thoroughly if discarded into the drain.
4. Exposure may result in irritation of skin and eyes.
5. Avoid contact with incompatible materials.
6. Avoid exposure to heat and direct sunlight.

To obtain the SDS (Safety Data Sheet), please contact Gentian at [marketing@gentian.com](mailto:marketing@gentian.com)

### Additional handling instructions

1. This test is for *in vitro* use only and must be handled by laboratory professionals.
2. Use only validated and approved instrument applications.
3. Do not use products after the expiration date has passed.
4. Do not mix reagents of different lots or interchange caps of reagents, controls, calibrators, and lots.
5. Tighten caps carefully back on after use of reagents, calibrators, and controls to avoid evaporation.

### Directions for reconstitution/dilution

The product is ready to use.

### Storage instructions

Store at 2-8 °C. Do not use past the expiration date stated on the label.

### Procedure

Methods for the Gentian Cystatin C Immunoassay are established on multiple clinical chemistry analyzers. Detailed, validated Application Notes describing the procedures for installation and analyzing on specific instruments are available upon request to [marketing@gentian.com](mailto:marketing@gentian.com)

### Reagent preparation

For instrument setup information, consult the Gentian Cystatin C Immunoassay Application Note specific to the instrument as well as the instrument manual. Reagents are supplied ready to use, mix gently before loading into instrument. The reagent bottles may fit directly into the instrument unless otherwise stated on the application notes.

### Assay kit components

Materials provided	
Gentian Cystatin C Calibrator, 1 mL	REF 1012
Materials required, but not provided	
Gentian Cystatin C Reagent kit (58 mL + 10 mL)	REF 1101
Gentian Cystatin C Control kit (2 levels x 1 mL) or	REF 1019
Gentian Cystatin C Control Kit (2 levels x 5 mL) or	REF 1026
Cystatin C Control Low 100 x 150 µL	REF 1029
Cystatin C Control High, 100 x 150 µL	REF 1030

All products are ready for use.

### Calibrator value assignment

The calibrator value, given in the analytical value sheet, is assigned according to Gentian's value transfer protocol as recommended in ISO 17511 [1] for calibrators and controls. For lot specific concentrations, please refer to the Analytical Value Sheet (AVS) available on [www.gentian.com](http://www.gentian.com).

### Calibrator standardization

Gentian Cystatin C Calibrator is standardized against the international calibrator standard ERM-DA471/IFCC.

## Calibration curve establishment




The calibration curve is established from a dilution series automatically prepared by the instrument, as defined in the Application Note and the instrument manual. A multi-point standard calibration curve is established over the points achieved from the dilution series. Calibrator values are lot dependent, and a new calibration must be performed whenever a new calibration lot is used. The calibrator's assigned values are given on the Analytical Value Sheet (AVS) available on [www.gentian.com](http://www.gentian.com). A new calibration should be performed every 4 weeks or when a new lot of reagents are used.

## QC controls

The Gentian Cystatin C controls low and high must be assayed each day before any samples are assayed in order to validate the calibration curve. The controls have an assigned value range that must be met before measuring samples. The assigned values are given in the Analytical Value Sheet (AVS) available on [www.gentian.com](http://www.gentian.com). If the control values are not valid, repeat the control measurements. If the calibration cannot be performed without error, or valid control values cannot be reproduced, contact Gentian for support.

## Bibliography

1. EN ISO 17511:2021 In vitro diagnostic medical devices — Requirements for establishing metrological traceability of values assigned to calibrators, trueness control materials and human samples. (ISO 17511:2020)

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## Date of issue

01 MAR. 2023

## Shipping damage

Please notify your local distributor if the product received is damaged.

## Symbols key

	Temperature limit
	Use by date
	Consult instructions for use
	Manufacturer
	CE mark with Notified Body number
	UKCA mark
	<i>In Vitro</i> Diagnostic medical device
	Lot number
	Catalogue number
	Unique Device Identifier
	Contents
	Calibrator
	Caution: Federal law restricts this device to sale by or on the order of a physician.