

Cystatin C



Gentian Cystatin C Immunoassay on Beckman Coulter® AU Systems (AU5800, AU680, AU480, DxC 500 AU, DxC 700 AU)

REF B08179

This document describes the general use and instrument specific settings of the product above and is applicable for USA only.

Intended use

The Cystatin C Immunoassay on the Beckman Coulter® AU Systems 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.

Summary and explanation of test

The non-glycosylated basic protein, cystatin C (molecular weight 13.2 kD), is produced at a constant rate in nearly every nucleated cell in the human body [1]. It is freely filtered through a normal glomerular membrane and is then reabsorbed and almost entirely catabolized in the proximal tubules. Hence, the cystatin C concentration in human blood is closely related to Glomerular Filtration Rate (GFR) [2]. A reduction in the GFR causes a rise in the concentration of cystatin C. The cystatin C concentration has not been shown to be significantly influenced by other factors such as muscular mass, inflammatory diseases, gender, age or diet [2, 3, 4].

Principles of the procedure

Serum or plasma sample from human is mixed with cystatin C immunoparticles. Cystatin C from the sample and anti-cystatin C from the immunoparticles aggregates. 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. The AU platforms will automatically calculate the results.

Composition

Reaction Buffer 1 (R1, 58 mL inactive ingredient): Gentian Cystatin C Assay Buffer. R1 is a MOPS [3-(N-Morpholino)-propane sulfonic acid] buffered saline, containing avian proteins and preserved with sodium azides (0.09 % (w/v)).

Reaction Buffer 2 (R2, 10 mL active ingredient): Gentian Cystatin C Immunoparticles. R2 contains a purified immunoglobulin fraction directed against human cystatin C, which is covalently attached to polystyrene nanoparticles. The solution is preserved with 0.09 % (w/v) sodium azide and antibiotics.

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 NaN₃ 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 refer to the SDS (Safety Data Sheet) available on www.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

Shelf life of unopened reagents at 2-8 °C: See expiry date on the label.

Specimen collection and preparation

Required sample material is human serum or EDTA/heparinized plasma. It is recommended to analyze the samples as fresh as possible. Sample stability testing showed that cystatin C in serum and plasma samples are stable for 14 days at room temperature (8-25 °C), 21 days if stored at 2-8 °C. If stored below -70 °C the samples are stable for at least 5 years [5]. Mix samples well before analyzing.

Procedure

A detailed instrument parameter list is available in the section "Instrument settings for Cystatin C Immunoassay" below. Instrument set up, maintenance, operation and precautions must be handled in accordance with the Beckman Coulter® AU system's instrument manuals.

Reagent preparation

Gentian Cystatin C reagents are supplied ready for use. Mix gently before loading into instrument. Reagents should be stored capped at 2-8 °C when not in use.

Assay kit components

Materials provided	
Gentian Cystatin C Reagent Kit for Beckman Coulter®	REF B08179
• R1 Assay Buffer (58 mL)	
• R2 Immunoparticles (10 mL)	
Materials required, but not provided	
Gentian Cystatin C Calibrator Kit (6 levels x 1 mL)	REF A52763
Gentian Cystatin C Control Kit (2 levels x 1 mL)	REF A52765

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All materials are ready for use.

Stability

Stability after opening: Until expiry date at 2-8 °C. On-board stability: 9 weeks at correct temperature (2-8 °C).

Calibrator standardization

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

Establishment of the calibration curve

Please refer to the package insert of the Gentian Cystatin C Calibrator Kit REF A52763.

QC controls

Please refer to the package insert of the Gentian Cystatin C Control Kit REF A52765.

Measuring patient samples

When a valid calibration has been performed and the control values are within the valid range, serum or plasma samples may be measured. Ensure that minimum volume of sample is present and assay the samples according to the instructions given in the Beckman Coulter® AU Systems instrument manuals.

Results

The results are calculated automatically by the Beckman Coulter® AU Systems. The results are presented in mg/L.

Relevant calculations

GFR prediction calculation

Several cystatin C based prediction equations for calculation of GFR for adults and children have been published. It should be noted that these formulas were evaluated with different cystatin C assays (Particle Enhanced Nephelometric Immunoassay PENIA or Particle Enhanced Turbidimetric Immunoassay PETIA) and may reveal inaccurate GFR results if an inappropriate combination of formula and assay is used. For calculation of GFR from cystatin C values measured with the Gentian assay the following prediction equation is recommended using mg/L as the unit factor [6]. The equation is valid for persons above 14 years.

$$\text{GFR [mL/min/1.73 m}^2\text{]} = \frac{79.901}{\text{Cystatin C (mg/L)}^{1.4389}}$$

Limitations of the procedure

The materials should not be used past expiration date.

Expected values

Gentian follows the CLSI Guideline, C28 [7] to determine the transferability of the reference interval. The reference interval is based on a reference interval study performed at Växjö Hospital, Sweden, including serum samples from 136 self-declared healthy subjects 20-80 years of age. The samples were analyzed for cystatin C on the AU2700 platform. The reference interval was calculated non-parametrically and was determined to be 0.53-1.01 mg/L. This represents the central 95 % of the whole population tested. It is recommended that every laboratory should determine a local reference interval since values may vary depending on the population tested.

Specific performance characteristics AU5800

All results refer to validation of the Gentian Cystatin C Immunoassay on an AU5800 instrument at one site with one lot of reagents, unless otherwise stated.

Measuring range

The measuring range of the Gentian Cystatin C Immunoassay was found to be 0.49-7.07 mg/L. The exact measuring range is specific to the calibrator, please refer to the analytical value sheet for the lot specific calibrator values available on www.gentian.com.

Interference

The interference study was designed in accordance with the protocol EP07 from CLSI [8]. Previously, no significant interference was detected with the drugs tested as recommended in a publication by Sonntag and Scholer [9]. There is no RF interference present in the Gentian Cystatin C Immunoassay because the antibodies are made using avian antibodies (chicken) [10].

Potential interferents	Concentration with no interference
Hemoglobin	6 g/L
Intralipid	10 g/L
Bilirubin	0.4 g/L

Precision

The Gentian Cystatin C Immunoassay was used in a study designed in accordance with CLSI protocol EP05 [11]. Three serum pools and 2 control levels were measured on the Beckman Coulter® AU5800 system (n=20).

Sample ID	Mean [mg/L]	Within run CV [%]	Total CV [%]
P1	0.90	0.82	1.96
P2	5.29	0.49	2.10
P3	2.08	0.43	1.62
CL	0.86	1.10	3.42
CH	2.91	0.81	2.40

Sensitivity

Using the Gentian Cystatin C Immunoassay on an AU5800 instrument, a lower limit of quantification was measured to be 0.23 mg/L.

Linearity

Using the Gentian Cystatin C Immunoassay, linearity was measured within acceptable limits in the range of 0.49-7.07 mg/L on the AU5800 system. Linearity samples above this range were not tested.

Hook effect

In a study on AU5800, the security zone for antigen excess extended up to 32 mg/L using the Gentian Cystatin C Immunoassay. No samples above this value were measured.

Analytical recovery

Using the Gentian Cystatin C Immunoassay on a Beckman Coulter® AU5800 instrument, a recovery of 96-100 % was observed.

Instrument variation

Instrument variation between Gentian Cystatin C Immunoassay on AU5800 and Architect c16000 instruments was measured and the results analyzed using Passing-Bablok regression analysis:

Passing-Bablok regression	N	Range of samples [mg/L]	Term	Coefficient
AU5800 vs. Architect	32	0.76 -1.88	Intercept	0.01
			Slope	0.95

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Specific performance characteristics AU680

All results refer to validation of the Gentian Cystatin C Immunoassay on an AU680 instrument at one site with one lot of reagents, unless otherwise stated.

Measuring range

The measuring range of the Gentian Cystatin C Immunoassay was found to be 0.44-7.30 mg/L. The exact measuring range is specific to the calibrator, please refer to the analytical value sheet for the lot specific calibrator values available on www.gentian.com.

Interference

The interference study was designed in accordance with the protocol EP07 from CLSI [8]. Previously, no significant interference was detected with the drugs tested as recommended in a publication by Sonntag and Scholer [9]. There is no RF interference present in the Gentian Cystatin C Immunoassay because the antibodies are made using avian antibodies (chicken) [10].

Potential interferents	Concentration with no interference
Hemoglobin	8.5 g/L
Intralipid	16 g/L
Bilirubin	0.2 g/L

Precision

The Gentian Cystatin C Immunoassay was used in study designed in accordance with CLSI protocol EP05 [11]. Four serum pools were measured on the Beckman Coulter® AU680 system (n=20).

Sample ID	Mean [mg/L]	Within run CV [%]	Between run CV [%]	Total CV [%]
P1	0.75	0.79	2.08	2.44
P2	1.96	0.43	1.73	1.88
P3	0.80	1.09	1.35	2.00
P4	4.98	0.67	1.00	1.57
CL	1.07	0.42	1.66	2.26
CH	3.28	0.25	1.00	1.51

Sensitivity

Using the Gentian Cystatin C Immunoassay on an AU680 instrument, a lower limit of quantification was measured to be 0.28 mg/L.

Linearity

Using the Gentian Cystatin C Immunoassay, linearity was measured within acceptable limits in the range of 0.44-7.30 mg/L on the AU680 system.

Hook effect

In a study on AU680, the security zone for antigen excess extended up to 12 mg/L using the Gentian Cystatin C Immunoassay.

Analytical recovery

Using the Gentian Cystatin C Immunoassay on a Beckman Coulter® AU680 instrument, a recovery of 86-92 % was observed.

Instrument variation

Instrument variation between Gentian Cystatin C Immunoassay on AU680 and Architect c16000 instruments was measured and the results analyzed using Passing-Bablok regression analysis:

Passing-Bablok regression	N	Range of samples [mg/L]	Term	Coefficient
AU680 Vs. Architect	40	0.71 – 6.38	Intercept	0.03
			Slope	0.95

Specific performance characteristics AU480

All results refer to validation of the Gentian Cystatin C Immunoassay on an AU480 instrument at one site with one lot of reagents, unless otherwise stated.

Measuring Range

The measuring range of the Gentian Cystatin C Immunoassay was found to be 0.43-7.32 mg/L. The exact measuring range is specific to the calibrator, please refer to the analytical value sheet for the lot specific calibrator values available on www.gentian.com.

Interference

The interference study was designed in accordance with the protocol EP07 from CLSI [8]. Previously, no significant interference was detected with the drugs tested as recommended in a publication by Sonntag and Scholer [9]. There is no RF interference present in the Gentian Cystatin C Immunoassay because the antibodies are made using avian antibodies (chicken) [10].

Potential interferents	Concentration with no interference
Hemoglobin	10 g/L
Intralipid	15 g/L
Bilirubin	0.6 g/L

Precision

The Gentian Cystatin C Immunoassay was used in a n study designed in accordance with CLSI protocol EP05 [11]. Three serum pools and 2 control levels were measured on the Beckman Coulter® AU480 system (n=12).

Sample ID	Mean [mg/L]	Within run CV [%]	Between run CV [%]	Total CV [%]
P1	1.09	1.57	1.21	3.60
P2	3.65	0.67	0.62	1.82
P3	1.24	1.73	0.00	3.47
CL	0.87	3.10	0.00	3.72
CH	3.39	1.18	0.94	3.03

Cystatin C

Sensitivity

Using the Gentian Cystatin C Immunoassay on an AU480 instrument, a lower limit of quantification was measured as 0.43 mg/L.

Linearity

Using the Gentian Cystatin C Immunoassay, linearity was measured within acceptable limits in the range of 0.40-7.32 mg/L on the AU480 system.

Hook effect

In a study on AU480, the security zone for antigen excess extended up to 9.4 mg/L using the Gentian Cystatin C Immunoassay.

Analytical recovery

Using the Gentian Cystatin C Immunoassay on a Beckman Coulter® AU480 instrument, a recovery of 90-95 % was observed.

Instrument variation

Instrument variation between Gentian Cystatin C Immunoassay on AU480 and Architect c16000 instruments was measured and the results analyzed using Passing-Bablok regression analysis:

Passing-Bablok regression	N	Range of samples (mg/L)	Term	Coefficient
AU480 vs. Architect	40	0.71 – 6.38	Intercept	0.03
			Slope	0.95

Performance characteristics DxC 500 AU

All results refer to validation of the Gentian Cystatin C Immunoassay on a DxC 500 AU instrument at one site with one lot of reagents, unless otherwise stated.

Measuring range

The measuring range of the Gentian Cystatin C Immunoassay was found to be 0.38–7.84 mg/L. The exact measuring range is specific to the calibrator, please refer to the analytical value sheet for the lot specific calibrator values available on www.gentian.com.

Interference

The interference study was designed in accordance with the protocol EP07 from CLSI [8]. Previously, no significant interference was detected with the drugs tested as recommended in a publication by Sonntag and Scholer [9]. There is no RF interference present in the Gentian Cystatin C Immunoassay because the antibodies are made using avian antibodies (chicken) [10].

Potential interferents	Concentration with no interference
Haemoglobin	8 g/L
Intralipid	10 g/L
Bilirubin	0.2 g/L

Precision

The Gentian Cystatin C Immunoassay was used in a n study designed in accordance with CLSI protocol EP05 [11]. 3 serum pools and 2 controls were measured 2 times with 2 replicates (n=80).

Sample ID	Mean [mg/L]	Within run CV [%]	Between run CV [%]	Total CV [%]
P1	0.87	0.56	1.46	2.41
P2	1.60	0.80	1.63	2.43
P3	6.37	0.73	1.63	3.66
CL	1.00	0.68	0.61	2.00
CH	3.48	0.46	0.55	1.57

Sensitivity

Using the Gentian Cystatin C Immunoassay on a DxC 500 AU instrument, a lower limit of quantification was measured as 0.32 mg/L. The study was designed in accordance with EP17 [12].

Linearity

Using the Gentian Cystatin C Immunoassay, linearity was measured within acceptable limits in the range of 0.38-7.84 mg/L on the DxC 500 AU system. Linearity samples above this range were not tested.

Hook effect

In a study on DxC 500 AU, the security zone for antigen excess extended up to 25.7 mg/L using the Gentian Cystatin C Immunoassay.

Analytical recovery

Using the Gentian Cystatin C Immunoassay on a DxC 500 AU instrument, a recovery of 102-109 % was observed.

Instrument variation

Instrument variation between Gentian Cystatin C Immunoassay on the DxC 500 AU and AU5800 instruments was measured and the results analyzed using Passing-Bablok regression analysis:

n	Range of samples [mg/L]	Term	Coefficient	95% CI
42	0.57– 5.72	Intercept	-0.01	[-0.05, 0.03]
		Slope	1.00	[0.97, 1.04]

Performance characteristics DxC 700 AU

All results refer to validation of the Gentian Cystatin C Immunoassay on a DxC 700 AU instrument at one site with one lot of reagents, unless otherwise stated.

Measuring range

The measuring range of the Gentian Cystatin C Immunoassay was found to be 0.40–8.07 mg/L. The exact measuring range is specific to the calibrator, please refer to the analytical value sheet for the lot specific calibrator values available on www.gentian.com.

Interference

The interference study was designed in accordance with the protocol EP07 from CLSI [8]. Previously, no significant interference was detected with the drugs tested as recommended in a publication by Sonntag and Scholer [9]. There is no RF interference present in the Gentian Cystatin C Immunoassay because the antibodies are made using avian antibodies (chicken) [10].

Potential interferents	Concentration with no interference
Hemoglobin	10 g/L
Intralipid	10 g/L
Bilirubin	0.2 g/L

Cystatin C

Precision

The Gentian Cystatin C Immunoassay was used in a study designed in accordance with CLSI protocol EP05 [11]. Three serum pools and 2 control levels were measured on the Beckman Coulter® DxC 700 AU system (n=80).

Sample ID	Mean [mg/L]	Within run CV [%]	Between Run CV [%]	Total CV [%]
P1	0.73	0.58	0.00	0.75
P2	1.70	0.49	0.28	0.59
P3	6.13	0.44	0.18	0.60
CL	0.91	0.67	0.60	1.04
CH	3.44	0.39	0.81	0.90

Sensitivity

Using the Gentian Cystatin C Immunoassay on an DxC 700 AU instrument, a lower limit of quantification was measured as 0.40 mg/L. The study was designed in accordance with EP17 [12].

Linearity

Using the Gentian Cystatin C Immunoassay, linearity was measured within acceptable limits in the range of 0.40-8.07 mg/L on the DxC 700 AU system. Linearity samples above this range were not tested.

Hook effect

In a study on DxC 700 AU, the security zone for antigen excess extended up to 10 mg/L using the Gentian Cystatin C Immunoassay.

Analytical recovery

Using the Gentian Cystatin C Immunoassay on a Beckman Coulter® DxC 700 AU instrument, a recovery of 104 – 105 % was observed.

Instrument variation

Instrument variation between Gentian Cystatin C Immunoassay on DxC 700 AU and Architect c4000, and between DxC 700 AU and AU5800 instruments was measured and the results analyzed using Passing-Bablok regression analysis:

Instrument	N	Range of samples [mg/L]	Term	Co-efficient
Architect	40	0.60-6.27	Intercept	0.02
			Slope	0.96
AU 5800	40	0.59-6.22	Intercept	0.00
			Slope	1.00

Bibliography

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RxOnly

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Additional information

For more detailed information on AU Systems, refer to the appropriate system manual. Since Beckman Coulter® does not manufacture the reagent or perform quality control or other tests on individual lots, Beckman Coulter® cannot be held responsible for the quality of the data obtained which is caused by performance of the reagent, any variation between lots of reagent, or protocol changes by the manufacturer.

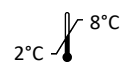
Serious incidents

Please notify the distributor and your competent authority if any serious incidents have occurred in relation to the device.

Shipping damage

Please notify your distributor if this product is received damaged. For technical assistance please contact your local Beckman Coulter® representative.

Symbols key



Temperature limit



Use by date



Consult instructions for use



Manufacturer



CE mark with Notified Body number



UKCA mark



In Vitro Diagnostic medical device



Lot number



Catalogue number



Unique Device Identifier



Contents

Cystatin C

R1

R1 Assay Buffer

R2

R2 Immunoparticles

RxOnly

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

Cystatin C



Instrument settings for the Gentian Cystatin C Immunoassay

Cystatin C AU5800 application settings

System Reagent: B08179 Reagent ID: 228

Parameters		Specific Test Parameters			
General	LIH	ISE	Calculated Test	Range	
Test Name: <input type="text" value="CysC"/>		Type: <input type="text" value="Serum"/>		Operation: <input type="text" value="Yes"/>	
Sample Volume	<input type="text" value="2"/> μL	Dilution	<input type="text" value="0"/> μL	OD Limit	
Pre-Dilution Rate	<input type="text" value="1"/>	Diluent Bottle	<input type="text" value="Outside"/>	Min.OD	<input type="text"/>
Rgt. Volume	R1(R1-1) <input type="text" value="150"/> μL	Dilution	<input type="text" value="0"/> μL	Reagent OD Limit	
	R1-2 <input type="text"/>	Dilution	<input type="text"/>	First	Low <input type="text" value="-2.0"/> High <input type="text" value="2.0"/>
	R2(R2-1) <input type="text" value="30"/> μL	Dilution	<input type="text" value="10"/> μL	Last	Low <input type="text"/>
Common Rgt. Type	<input type="text"/>	Name	<input type="text"/>	Dynamic Range Low	<input type="text" value="0.49"/> High <input type="text" value="7.07"/>
Wavelength	Pri <input type="text" value="540"/> nm	Sec.	<input type="text"/>	Correlation Factor A	<input type="text" value="1.00"/> B <input type="text" value="0.00"/>
Method	<input type="text" value="End Point"/>			Factor for Maker A	<input type="text"/>
Reaction Slope	<input type="text" value="+"/> ∇			Onboard Stability Period	<input type="text" value="60**"/> Day <input type="text"/> Hour
Measuring Point1	First <input type="text" value="13"/> Last <input type="text" value="27"/>			LIH Influence Check	<input type="text"/>
Measuring Point2	First <input type="text"/>			Lipemia	<input type="text"/>
Linearity Limit	<input type="text"/> %			Icterus	<input type="text"/>
Lag Time Check	<input type="text"/>			Hemolysis	<input type="text"/>

Parameters		Specific Test Parameters			
General	LIH	ISE	Calculated Test	Range	
Test Name: <input type="text" value="CysC"/>		Type: <input type="text" value="Serum"/>			
Value/Flag: <input type="text" value="#"/>		Level		Low <input type="text" value="#"/>	High <input type="text" value="#"/>
Specific Ranges:		From	To	Low	High
<input type="checkbox"/> 1.	Sex <input type="text" value="#"/>	Year <input type="text" value="#"/>	Month <input type="text" value="#"/>	Year <input type="text" value="#"/>	Month <input type="text" value="#"/>
<input type="checkbox"/> 2.	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 3.	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 4.	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 5.	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 6.	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 7.	Standard demographics				<input type="text" value="#"/>
<input type="checkbox"/> 8.	Not within expected values				<input type="text" value="#"/>
Panic Value	Low <input type="text"/>	High <input type="text"/>	Unit	<input type="text" value="mg/L"/>	Decimal Places <input type="text" value="#"/>

Parameters		Calibration Parameters			
Calibrators	Calibration Specific	STAT Table Calibration			
General	ISE				
Test Name: <input type="text" value="CysC"/>		Type: <input type="text" value="Serum"/>		Cuvette: <input type="text"/>	
		<input type="checkbox"/> Use Serum Cal.			
Calibration Type: <input type="text" value="6AB"/>		Formula: <input type="text" value="Spline"/>		Counts: <input type="text" value="#"/>	
<Calibrator Parameters>		Factor Range		Slope Check <input type="text" value="+"/> ∇	
Point 1:	Calibrator <input type="text" value="1"/>	OD <input type="text"/>	Conc <input type="text" value="*"/>	Low	High
Point 2:	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="*"/>	<input type="text"/>	<input type="text"/>
Point 3:	<input type="text" value="3"/>	<input type="text"/>	<input type="text" value="*"/>	<input type="text"/>	<input type="text"/>
Point 4:	<input type="text" value="4"/>	<input type="text"/>	<input type="text" value="*"/>	<input type="text"/>	<input type="text"/>
Point 5:	<input type="text" value="5"/>	<input type="text"/>	<input type="text" value="*"/>	<input type="text"/>	<input type="text"/>
Point 6:	<input type="text" value="6"/>	<input type="text"/>	<input type="text" value="*"/>	<input type="text"/>	<input type="text"/>
Point 7:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Point 8:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Point 9:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Point 10:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<Point Cal. For Master Curve>	No. of Correction Points <input type="text"/>	<input type="checkbox"/> Use Master Curve		<input type="checkbox"/> Lot Calibration	
Point-1	Calibrator <input type="text"/>	OD <input type="text"/>	Conc <input type="text"/>	Low	High
Point-2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Stability	Reagent Blank	<input type="text" value="28***"/>	Day	<input type="text" value="0"/>	Hour
	Calibration	<input type="text" value="28***"/>	Day	<input type="text" value="0"/>	Hour
MB Type Factor:	<input type="text"/>	1-Point Calibration Point <input type="checkbox"/>		<input type="checkbox"/> with Conc-0	

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* Lot specific, see analytical value sheet available on www.gentian.com

** based on results from instrument AU400 (Beckman Coulter®)

*** based on results from instrument DxC 700 AU

Cystatin C



Cystatin C AU680 application settings

System Reagent: B08179 Reagent ID: 228

Parameters		Specific Test Parameters			
General	LIH	ISE	Calculated Test	Range	
Test Name: <input type="text" value="CysC"/> < > Type: <input type="text" value="Serum"/> Operation: <input type="text" value="Yes"/>					
Sample Volume	<input type="text" value="2"/> μL	Dilution	<input type="text" value="0"/> μL	OD Limit	
Pre-Dilution Rate	<input type="text" value="1"/>			Min.OD	Max.OD
Rgt. Volume R1(R1-1)	<input type="text" value="150"/> μL	Dilution	<input type="text" value="0"/> μL	Reagent OD Limit	
				First	High
				Last	High
R2(R2-1)	<input type="text" value="30"/> μL	Dilution	<input type="text" value="10"/> μL	Dynamic Range Low	High
Common Rgt. Type	<input type="text"/>	Name	<input type="text"/>	Correlation Factor A	B
Wavelength	Pri <input type="text" value="540"/> nm	Sec.	<input type="text"/>	Factor for Maker A	B
Method	<input type="text" value="End Point"/>				
Reaction Slope	<input type="text" value="+"/> ∇			Onboard Stability Period	Day
Measuring Point1 First	<input type="text" value="13"/>	Last	<input type="text" value="27"/>	LIH Influence Check	<input type="text"/>
Measuring Point2 First	<input type="text"/>	Last	<input type="text"/>	Lipemia	<input type="text"/>
Linearity Limit	<input type="text"/>			Icterus	<input type="text"/>
Lag Time Check	<input type="text"/>			Hemolysis	<input type="text"/>

Parameters		Specific Test Parameters					
General	LIH	ISE	Calculated Test	Range			
Test Name: <input type="text" value="CysC"/> < > Type: <input type="text" value="Serum"/>							
Value/Flag:	<input type="text" value="#"/>	Low	<input type="text"/>	High	<input type="text"/>		
Level	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Specific Ranges:	From	To	Low	High	Panic Value		
	Sex	Year	Month	Year	Month	Low	High
<input type="checkbox"/> 1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> 2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> 3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> 4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> 5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> 6.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> 7.	No demographics						
<input type="checkbox"/> 8.	Not within expected values						
Unit	<input type="text" value="mg/L"/>		Decimal Places	<input type="text" value="#"/>			

Parameters		Calibration Parameters			
Calibrators	Calibration Specific	STAT Table Calibration			
General	ISE				
Test Name: <input type="text" value="CysC"/> < > Type: <input type="text" value="Serum"/> <input type="checkbox"/> Use Serum Cal.					
Calibration Type: <input type="text" value="6AB"/> Formula: <input type="text" value="Spline"/> Counts: <input type="text" value="#"/>					
<Calibrator Parameters>					
Calibrator	OD	Conc	Low	High	Slope Check
Point 1:	<input type="text" value="1"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>
Point 2:	<input type="text" value="2"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Allowance Range Check
Point 3:	<input type="text" value="3"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Reagent Blank
Point 4:	<input type="text" value="4"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Calibration
Point 5:	<input type="text" value="5"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Advanced Calibration
Point 6:	<input type="text" value="6"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Operation
Point 7:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="#"/>
Point 8:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Interval (RB/ACAL)
Point 9:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="#"/>
Point 10:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<Point Cal. For	No. of Correction Points	<input type="text"/>	Use Master Curve	<input type="checkbox"/>	<input type="checkbox"/> Lot Calibration
<Master Curve>					
Calibrator	OD	Conc	Low	High	Stability
Point-1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Reagent Blank
Point-2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Calibration
					<input type="text" value="28***"/> Day
					<input type="text" value="28***"/> Day
MB Type Factor:	<input type="text"/>	1-Point Calibration Point	<input type="checkbox"/>	<input type="checkbox"/> with Conc-0	

User defined

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** based on results from instrument AU400 (Beckman Coulter®)

*** based on results from instrument DxC 700 AU

Cystatin C



Cystatin C AU480 application settings

System Reagent: B08179 Reagent ID: 228

Parameters		Specific Test Parameters			
General	LIH	ISE	Calculated Test	Range	
Test Name: <input type="text" value="CysC"/>		<input type="text" value="<"/> <input type="text" value=">"/>		Type: <input type="text" value="Serum"/>	Operation: <input type="text" value="Yes"/>
Sample Volume	<input type="text" value="2"/> μL	Dilution	<input type="text" value="0"/> μL	OD Limit	
Pre-Dilution Rate	<input type="text" value="1"/>			Min.OD	<input type="text" value=""/>
Rgt. Volume	R1(R1-1) <input type="text" value="150"/> μL	Dilution	<input type="text" value="0"/> μL	Reagent OD Limit	<input type="text" value=""/>
				First	Low <input type="text" value="-2.0"/> High <input type="text" value="2.0"/>
				Last	Low <input type="text" value=""/> High <input type="text" value=""/>
				Dynamic Range Low	0.43 High <input type="text" value="7.32"/>
Common Rgt. Type	<input type="text" value=""/>	Name	<input type="text" value=""/>	Correlation Factor A	1.00
Wavelength	Pri <input type="text" value="540"/> nm	Sec.	<input type="text" value=""/>	Factor for Maker A	B <input type="text" value="0.00"/>
Method	<input type="text" value="End Point"/>				
Reaction Slope	<input type="text" value=""/>			Onboard Stability Period	<input type="text" value="60**"/> Day <input type="text" value=""/> Hour
Measuring Point1 First	<input type="text" value="13"/>	Last	<input type="text" value="27"/>	LIH Influence Check	<input type="text" value=""/>
Measuring Point2 First	<input type="text" value=""/>	Last	<input type="text" value=""/>	Lipemia	<input type="text" value=""/>
Linearity Limit	<input type="text" value=""/>			Icterus	<input type="text" value=""/>
Lag Time Check	<input type="text" value=""/>			Hemolysis	<input type="text" value=""/>

Parameters		Specific Test Parameters					
General	LIH	ISE	Calculated Test	Range			
Test Name: <input type="text" value="CysC"/>		<input type="text" value="<"/> <input type="text" value=">"/>		Type: <input type="text" value="Serum"/>			
Value/Flag:	<input type="text" value="#"/>	Low	<input type="text" value=""/>	High	<input type="text" value=""/>		
Level	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>		
Specific Ranges:	From	To	Low	High	Panic Value		
	Sex	Year	Month	Year	Month	Low	High
<input type="checkbox"/> 1.	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/> 2.	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/> 3.	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/> 4.	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/> 5.	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/> 6.	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/> 7.	No demographics						
<input type="checkbox"/> 8.	Not within expected values						
Unit	<input type="text" value="mg/L"/>		Decimal Places	<input type="text" value=""/>			

Parameters		Calibration Parameters			
Calibrators	Calibration Specific	STAT Table Calibration			
General	ISE				
Test Name: <input type="text" value="CysC"/>		<input type="text" value="<"/> <input type="text" value=">"/>		Type: <input type="text" value="Serum"/>	<input type="checkbox"/> Use Serum Cal.
Calibration Type: <input type="text" value="6AB"/>		Formula: <input type="text" value="Spline"/>		Counts: <input type="text" value=""/>	
<Calibrator Parameters>					
	Calibrator	OD	Conc	Low	High
Point 1:	<input type="text" value="1"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 2:	<input type="text" value="2"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 3:	<input type="text" value="3"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 4:	<input type="text" value="4"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 5:	<input type="text" value="5"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 6:	<input type="text" value="6"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 7:	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 8:	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 9:	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Point 10:	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
<Point Cal. For		No. of Correction Points	<input type="text" value=""/>	Use Master Curve	<input type="checkbox"/>
Master Curve>		OD Range	Low	High	Stability
Point-1	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	Reagent Blank <input type="text" value="28***"/> Day <input type="text" value=""/> Hour
Point-2	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	Calibration <input type="text" value="28***"/> Day <input type="text" value=""/> Hour
MB Type Factor:	<input type="text" value=""/>	1-Point Calibration Point	<input type="text" value=""/>	<input type="checkbox"/> with Conc-0	

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 ** based on results from instrument AU400 (Beckman Coulter®)
 *** based on results from instrument DxC 700 AU

Cystatin C



Cystatin C DxC 500 AU application settings

System Reagent: B08179 Reagent ID: 228

TEST CONFIGURATION & CHEMISTRY DETAILS												
Assay Name	Test	Rev	Discipline		Chemistry							
Test ID	CYS		Calculated Result		<input type="checkbox"/>							
LIS Code	CYS											
UNITS AND RANGE SETTINGS												
Use Settings from	Serum	Units	mg/L	Decimal Places	x.xx							
Test Kind	General	Revision	01	<input checked="" type="checkbox"/> Multi Reagent Switch								
Reagent Name	CYS	Reagent ID	228	<input type="checkbox"/> FSE Test								
ABB Name	CYS1G	Parameter Long Name	Cystatin C B08179 CYS1G CYSC Serum									
Region	<input checked="" type="checkbox"/> US	<input checked="" type="checkbox"/> OUS	<input checked="" type="checkbox"/> AP	<input type="checkbox"/> JP	<input checked="" type="checkbox"/> EU	<input type="checkbox"/> Other						
GENERAL PARAMETERS												
SAMPLE VOLUME			Sample Volume	2.0	µL	Dilution	0	µL	REACTION OD LIMIT			
REAGENT VOLUME			Predilution Rate	1				Low		High		
WAVELENGTH			R1-1	150	µL	Dilution	0	µL	REACTION BLANK OD LIMIT			
METHOD			R2-1	30	µL	Dilution	10	µL	First Low	-2.0000	High	2.0000
MEASURING POINT									Last Low	-2.0000	High	2.0000
LINEARITY LIMIT									ANALYTICAL MEASURING RANGE			
LAG TIME CHECK									Low	0.38	High	7.84
MANUFACTURER FACTOR									A	1	B	0
REAGENT ONBOARD STABILITY									Days			0
LIH INFLUENCE CHECK									<input type="checkbox"/> Perform LIH check			
Lipemia									+			
Icterus									+			
Hemolysis									+			
CALIBRATION PARAMETERS												
Base Unit	Decimal Place	Unit 1	Factor 1	Unit 2	Factor 2	Unit 3	Factor 3	Unit 4	Factor 4			
mg/L	2	None	0	None	0	None	0	None	0			
CALIBRATOR SPECIFIC			Calibration Type	6AB	Counts	2	<input type="checkbox"/> Use highest calibrator for Upper AMR					
Formula			Spline	MB Factor								
Calibrator Name			Add	CYS	Positive Cutoff							
<input checked="" type="checkbox"/> SLOPE CHECK			Slope Check	+	Number of Levels	6						
STABILITY AND INTERVAL			Reagent Blank Stability	28	Days	0	Hours	Interval	Lot			
Calibration Stability			28	Days	0	Hours	Interval	Lot				
OD DELTA CHECK									<input type="checkbox"/> Reagent Blank		0.0000	
									<input type="checkbox"/> Calibration		0.0000	
PROZONE CHECK PARAMETERS												
<input type="checkbox"/> Logic Check 1			<input type="checkbox"/> Logic Check 2			<input type="checkbox"/> Logic Check 3						
Check Points	Decision Values	Check Points	Decision Values	Check Points	Decision Values	Check Points	Decision Values	Check Points	Decision Values			
Point 1	#	Value 1	#	Point 1	#	Value 1	#	Point 1	#			
Point 2	#	Value 2	#	Interval	#	Value 2	#	Interval	#			
Point 3	#	Value 3	#					Limit 1	#			
Limit Points	Limit 1	#	Limit Points	Limit 1	#	Limit Points	Limit 1	Limit 1	#			
Check Pattern	Pattern	#	Check Pattern	Pattern	#	Check Pattern	Pattern	Limit 2	#			

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** Based on results from instrument AU400 (Beckman Coulter®)

Cystatin C



Cystatin C DxC 700 AU application settings

System Reagent: B08179 Reagent ID: 228

General	LIH	ISE	Calculated Test	Range
Test Name: <input type="text" value="CYS1G"/> <input type="text" value="Test No"/>				
Type: <input type="text" value="Serum"/> Operation: <input type="text" value="Yes"/>				
Sample Volume	<input type="text" value="2.0"/> μL	Dilution	<input type="text" value="0"/> μL	OD Limit
Pre-Dilution Rate	<input type="text" value="1"/>			Min. OD <input type="text"/> Max OD <input type="text"/>
Reagent Volume	R1 (R1-1) <input type="text" value="150"/> μL	Dilution	<input type="text" value="0"/> μL	Reagent OD Limit
	R1-2 <input type="text"/>	Dilution	<input type="text"/>	1 st Low <input type="text" value="-2.0000"/> High <input type="text" value="2.0000"/>
	R2 (R2-1) <input type="text" value="30"/> μL	Dilution	<input type="text" value="10"/> μL	Last Low <input type="text" value="-2.0000"/> High <input type="text" value="2.0000"/>
Common Reagent	Type <input type="text" value="None"/>	Name	<input type="text" value="None"/>	Analytical Measuring Range Low <input type="text" value="0.40"/> High <input type="text" value="8.07"/>
Wavelength	Pri <input type="text" value="540"/> nm	Sec	<input type="text" value="None"/> nm	Correlation Factor A <input type="text" value="1"/> B <input type="text" value="0"/>
Method	<input type="text" value="END"/>			Manufacturer Factor A <input type="text" value="1"/> B <input type="text" value="0"/>
Reaction Slope	<input type="text" value="+"/>			Onboard Stability Period <input type="text" value="60"/> ** Day <input type="text" value="0"/> Hour
Measuring Point-1	1st <input type="text" value="13"/>	Last	<input type="text" value="27"/>	LIH Influence Check <input type="text" value="No"/>
Measuring Point-2	1st <input type="text"/>	Last	<input type="text"/>	Lipemia <input type="text"/>
Linearity Limit	<input type="text"/>			Icterus <input type="text"/>
Lag Time Check	<input type="text"/>			Hemolysis <input type="text"/>

General	LIH	ISE	Calculated Test	Range
Test Name: <input type="text" value="CYS1G"/> <input type="text" value="Test No"/>				
Type: <input type="text" value="Serum"/>				
Value/Flag	<input type="text" value="Value"/>	Level	Low <input type="text" value="-99999.99"/> High <input type="text" value="99999.99"/>	
Specific Ranges				
	Sex	Year	Month	Year
	From			To
	Month			Month
<input type="checkbox"/> 1:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 2:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 3:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 4:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 5:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 6:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
7:	Standard demographics			<input type="text" value="#"/>
8:	Not within expected values			<input type="text" value="#"/>
Critical Limits	Low <input type="text" value="#"/>	High <input type="text" value="#"/>	Unit <input type="text" value="mg/L"/>	Select <input type="text"/>
				Decimal Places <input type="text" value="2"/>

Calibrators	General	ISE
Test Name: <input type="text" value="CYS1G"/>		
<input type="checkbox"/> Use Serum Cal.		
Calibration Type:	<input type="text" value="6AB"/>	Formula: <input type="text" value="Spline"/>
		Counts: <input type="text" value="2"/>
<Calibrator Parameters>		
	Calibrator	OD
		Conc
		Range
		Low
		High
Point-1	CYSC Calibrator Level 1	*
Point-2	CYSC Calibrator Level 2	*
Point-3	CYSC Calibrator Level 3	*
Point-4	CYSC Calibrator Level 4	*
Point-5	CYSC Calibrator Level 5	*
Point-6	CYSC Calibrator Level 6	*
Point-7		
MB Type Factor	<input type="text"/>	1-Point Calibration Point <input type="text" value="None"/>
		<input type="checkbox"/> with Conc-0
		Slope Check <input type="text" value="+"/>
		Allowable Range Check
		<input type="checkbox"/> Reagent Blank
		<input type="checkbox"/> Calibration
		Advanced Calibration
		Operation <input type="text" value="No"/>
		Interval (RB) <input type="text"/>
		Interval (ACAL) <input type="text"/>
		Stability
		Reagent Blank <input type="text" value="28"/> Day <input type="text" value="0"/> Hour
		Calibration <input type="text" value="28"/> Day <input type="text" value="0"/> Hour

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** based on results from instrument AU400 (Beckman Coulter®)