

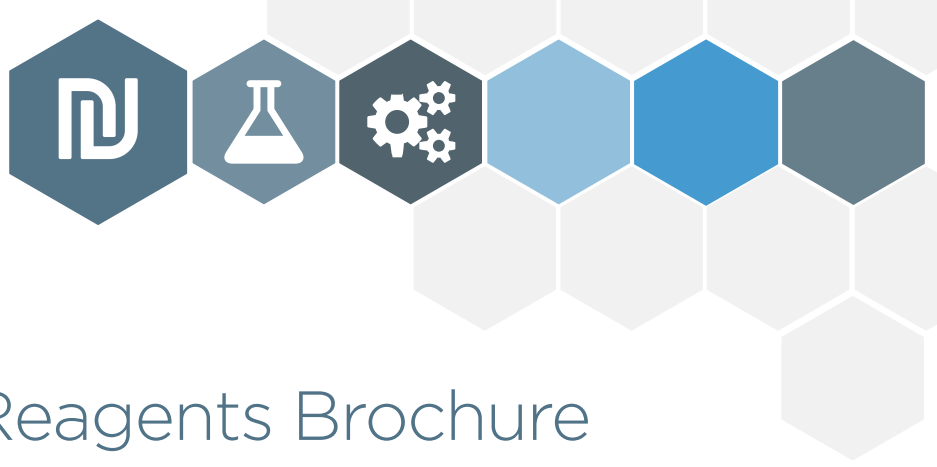


# **Clinical Chemistry** Reagents Brochure

**STANBIO**<sup>®</sup>Chemistry

**EKF** | Central  
Laboratory





# Welcome to our Reagents Brochure

EKF Diagnostics' Stanbio Chemistry menu includes liquid-stable reagents, calibrators, standards and controls that can be used on most main brand analyzers including Cobas, Architect, Dimension and Hitachi.

Our LiquiColor® and Liqui-UV® chemistry reagents are designed for ease of use and maximum stability.

- Stability up to the expiration date, even after opening the bottle
- Ready to use at any time, many with no-measure reagent preparation
- Economical choice of reagent kits
- Avoids reconstitution errors and water contamination

Stanbio Chemistry products are manufactured in our FDA regulated facility in Boerne, Texas. All stages of the manufacturing process are based on strict Current Good Manufacturing Practice regulations (cGMP). We also offer OEM and contract manufacturing services.



# Our comprehensive chemistry range

## Blood Disorders & Sepsis

Iron & Total Iron Binding Capacity Test  
Procalcitonin Bi-Level control  
Procalcitonin calibrator  
Procalcitonin LiquiColor®

## Diabetes

Glucose LiquiColor® (Enzymatic)  
Glucose Liqui-UV® (Endpoint)  
Glucose Standard  
Glycated Serum Protein (GSP) calibrator  
Glycated Serum Protein (GSP) control set  
Glycated Serum Protein (GSP) LiquiColor®  
Glycohemoglobin (HbA1c) Direct control  
Glycohemoglobin Bi-Level control  
Glycohemoglobin Direct (HbA1c)  
Glycohemoglobin Direct (HbA1c) calibrator  
Glycohemoglobin Pre-Fil Test  
Glycohemoglobin Test (HbA1 and HbA1c)  
β-Hydroxybutyrate / TDM Bi-Level controls  
β-Hydroxybutyrate / TDM Linearity standards  
β-Hydroxybutyrate / TDM Tri-Level controls  
β-Hydroxybutyrate LiquiColor®  
(Beckman Synchron CX/LX/DX)  
β-Hydroxybutyrate LiquiColor® (Endpoint)

## Electrolytes

Chloride LiquiColor®  
Chloride Liqui-UV®  
Magnesium LiquiColor®  
Phosphorus Liqui-UV®  
Potassium Liqui-UV®  
Potassium Test  
Sodium LiquiColor®  
Sodium Test

## Hepatic

Albumin LiquiColor®  
Alkaline Phosphatase LiquiColor® (Rate)  
ALT/ SGPT Liqui-UV® (Rate)  
AST/ SGOT Liqui-UV® (Rate)  
Bilirubin Direct LiquiColor®  
Bilirubin Direct LiquiColor® (DCA)  
Bilirubin Total & Direct LiquiColor®  
Bilirubin Total LiquiColor®  
Bilirubin Total LiquiColor® (DCA)  
CO<sub>2</sub> (Sirus and Altair only)  
Cyanmethemoglobin Standard  
Gamma-GT LiquiColor®  
LDH Liqui-UV®  
Protein Micro LiquiColor® (CSF/ Urine)  
Protein Total LiquiColor®

## Kidney & Renal

Calcium (Arsenazo) LiquiColor®  
Calcium (CPC) LiquiColor®  
Creatinine LiquiColor® (Endpoint)  
Creatinine LiquiColor® (Kinetic)  
Protein Micro LiquiColor® (CSF/ Urine)  
Protein Total LiquiColor®  
Urea Nitrogen (BUN) Liqui-UV® (Rate)  
Urea Nitrogen (BUN) Test  
Urea Nitrogen Standard  
Uric Acid LiquiColor® (Enzymatic)

## Lipids

Cholesterol LiquiColor® (Enzymatic)  
Cholesterol Standard  
Cholesterol, Direct (HDL/ LDL) calibrator  
Cholesterol, HDL, Direct LiquiColor®  
Cholesterol, HDL, Test  
Cholesterol, LDL, Direct LiquiColor®  
Triglyceride LiquiColor® (Mono)  
Triglyceride LiquiColor® (Enzymatic)



# Our best selling chemistry reagents

## $\beta$ -Hydroxybutyrate LiquiColor® assay

- Quick and simple testing for ketosis
- Earlier detection of clinically significant ketosis
- Improved ER and CDU throughput and efficiency
- Greater precision and sensitivity



## Glycated Serum Protein LiquiColor® assay

- 2-3 week indicator of average blood glucose
- Provides superior specificity and accuracy compared to fructosamine assays (NBT method) for monitoring and assessment of short-term to medium-term (past 2-3 week period) average blood glucose levels
- Complementary to HbA1c in diagnosis and screening of diabetes
- For use on a variety of clinical chemistry analyzers



## Procalcitonin LiquiColor® assay

- No sample splitting required helps reduce lab tech processing time
- Liquid stable reagent that's ready to use
- Ten-minute on board method minimizes impact on analyzer workflow
- Can be automated with existing chemistry line for improved work flow
- Six-point calibration eliminates need to perform bi-annual linearity
- Four-week on-board stability reduces waste
- No unit-dose packaging to buy
- Reagent, calibrator and control sets sold separately to reduce waste
- Correlates well with proprietary closed system




PCT is currently unavailable for sale in France, Spain, Germany, Austria and Italy.



Stanbio Laboratory continues to offer the broadest range of liquid-stable clinical chemistry reagents available worldwide. Our line of LiquiColor® and Liqui-UV® reagents are designed for maximum stability, ease-of-use and are optimized for today's chemistry analyzers.


## Iron & Total Iron Binding Capacity Test

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0370-110	Reagent		Ferrozine	110 tests R: 1 15 mL Buffer 1: 1 x 125 mL Buffer 2: 1 x 125 mL STD: 1 x 30 mL (500 mg/dL)	Up to 30 days	1000 mg/dL	560


## Procalcitonin Bi-Level control

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2320-203	Control		Lyophilized, requires reconstitution	2 x 3 mL	-	-	-

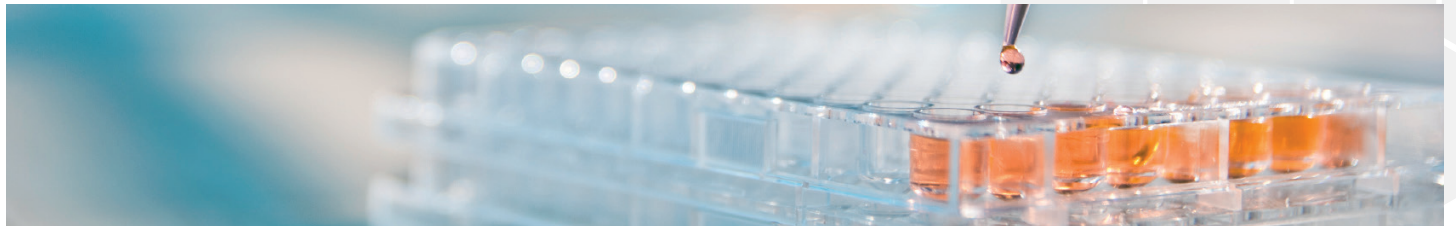
## Procalcitonin calibrator

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2310-501	Calibrator		Lyophilized, requires reconstitution	5 x 1 mL	-	-	-

## Procalcitonin LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2300-060	Reagent		Latex enhanced immunoturbidimetric	R1: 1 x 45 mL R2: 1 x 15 mL	Up to 30 days	0.17 - 50 ng/dL	600





### Glucose LiquiColor® (Enzymatic)

Reference Number	Type	Media	Methodology	On-board stability	Contents	Linearity	Read (mm)
1070-125	Reagent		Trinder	Up to 30 days	R: 1 x 250 mL STD 1 x 3 mL (100 mg/dL)	400 mg/dL	500
1070-500	Reagent		Trinder	Up to 30 days	R: 2 x 250 mL STD 1 x 3 mL (100 mg/dL)	400 mg/dL	500
1071-001	Reagent		Trinder	Up to 30 days	R: 1 x 1000 mL	400 mg/dL	500

### Glucose Liqui-UV® (Endpoint)

Reference Number	Type	Media	Methodology	On-board stability	Contents	Linearity	Read (mm)
1060-500	Reagent		Hexokinase	Up to 30 days	R1: 4 x 105 mL R2: 1 x 80 mL STD: 1 x 3 mL (100 mg/dL)	500 mg/dL	340

### Glucose Standard (100 mg/dL)

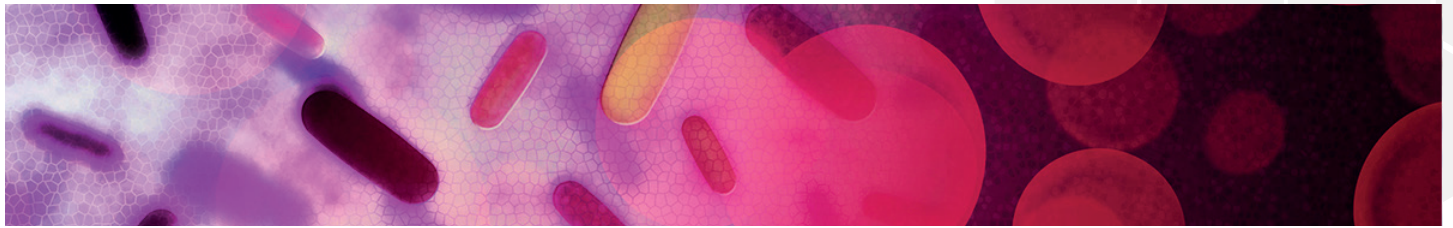
Reference Number	Type	Media	Methodology	On-board stability	Contents	Linearity	Read (mm)
1072-030	Standard		-	-	1 x 30 mL	-	-

### Glycated Serum Protein (GSP) calibrator

Reference Number	Type	Media	Methodology	On-board stability	Contents	Linearity	Read (mm)
2360-401	Calibrator		Lyophilized, requires reconstitution	-	Cal 1: 2 x 1 mL Cal 2: 2 x 1 mL	-	-

### Glycated Serum Protein (GSP) control set

Reference Number	Type	Media	Methodology	On-board stability	Contents	Linearity	Read (mm)
2370-401	Control		Lyophilized, requires reconstitution	-	Level 1: 2 x 1 mL Level 2: 2 x 1 mL	-	-



### Glycated Serum Protein (GSP) LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2350-062	Reagent		Enzymatic	R1: 1 x 50 mL R2: 1 x 12.5 mL	Up to 30 days	21.0 - 1354.0 µmol/L	546


### Glycohemoglobin (HbA1c) Direct control

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0355-201	Control		Purified Lipid hemolysate	2 x 0.5 mL	-	-	-

### Glycohemoglobin Bi-Level control

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0357-201	Control		Purified Lipid hemolysate	2 x 1 mL	-	-	-


### Glycohemoglobin Direct (HbA1c)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0360-040	Reagent		Turbidimetric immunoassay	R1: 1 x 30 mL R2a: 1 x 9.5 mL R2b: 1 x 0.5 mL R3 (lysing): 1 x 125 mL	Up to 30 days	2 - 16% HbA1c	600

### Glycohemoglobin Direct (HbA1c) calibrator

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0365-401	Calibrator	Powder		4 x 0.5 mL	-	-	-

### Glycohemoglobin Pre-Fil Test

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
P350-050	Reagent		Optimised Ion-exchange resin procedure	50 tests STD: 1 x 1mL		HbA1 4 - 20% HbA1c 2.6 - 16%	415





## Glycohemoglobin Test (HbA1 and HbA1c)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0350-060	Reagent		Optimised Ion-exchange resin procedure	60 tests STD: 1 x 1 mL	-	HbA1: 4 - 20% HbA1c: 2.6 - 16%	415

## $\beta$ -Hydroxybutyrate / TDM Bi-Level controls

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2465-605	Control		Liquid-ready-to-use	6 x 5 mL	-	-	-

## $\beta$ -Hydroxybutyrate / TDM Linearity standards

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2450-604	Standard		Liquid-ready-to-use	6 x 4 mL	-	-	-

## $\beta$ -Hydroxybutyrate / TDM Tri-Level controls

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2460-605	Control		Liquid-ready-to-use	6 x 5 mL	-	-	-

## $\beta$ -Hydroxybutyrate LiquiColor® (Beckman Synchron CX/LX/DX)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
B2440-180	Reagent		$\beta$ -Hydroxybutyrate dehydrogenase /INT	2 x 90 tests	Up to 30 days	8.0 mmol/L	520

## $\beta$ -Hydroxybutyrate LiquiColor® (Endpoint)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2440-058	Reagent		$\beta$ -Hydroxybutyrate dehydrogenase / INT	R1: 1 x 50 mL R2: 1 x 8.5 mL STD: 1 x 3 mL (1 mmol/L)	Up to 30 days	8.0 mmol/L	505



### Chloride LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0210-250	Reagent		Mercuric Thiocyanate	R: 1 x 250 mL STD: 1 x 3 mL (100 mEq/L)	Up to 30 days	70 - 120 mEq/L	500

### Chloride Liqui-UV®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0215-125	Reagent		Innovative colorimetric	R1: 4 x 25 mL R2: 1 x 25 mL	Up to 50 days	40 - 70 mmol/L	340

### Magnesium LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0130-430	Reagent		Xylidyl blue	R: 4 x 30 mL STD: 1 x 3 mL (2 mEq/L)	Up to 30 days	4.3 mEq/L	520

### Phosphorus Liqui-UV®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0830-125	Reagent		Phosphomolybdate	R: 1 x 250 mL STD: 1 x 3 mL (10 mg/dL)	Up to 30 days	20 mg/dL	340

### Potassium Liqui-UV®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0175-125	Reagent		Enzymatic - K+ dependent pyruvate kinase	R1: 4 x 25 mL R2: 1 x 25 mL	Up to 30 days	2 - 8 mmol/L	340

### Potassium Test

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0160-050	Reagent		Turbidimetric immunoassay	50 test STD: 1 x 3 mL (4 mmol/L)	-	10 mmol/L	580

### Sodium LiquiColor®


Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0185-112	Reagent		Enzymatic Na+ depended β-galactosidase	R1: 4 x 21 mL R2: 1 x 28 mL	Up to 30 days	100 - 180 mmol/L	405

### Sodium Test



Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0140-050	Reagent		Uranyl acetate	50 tests STD: 1 x 6 mL (140 mmol/L)	-	160 mmol/L	420





## Albumin LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0285-500	Reagent		Bromocresol green reaction (BCG)	R: 2 x 250 mL STD: 1 x 3 mL	Up to 30 days	7 g/dL	550



## Alkaline Phosphatase LiquiColor® (Rate)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2900-430	Reagent		P-nitrophenylphosphate	R1: 4 x 25 mL R2: 1 x 20 mL	Up to 14 days	800 U/L	405
2900-500	Reagent		P-nitrophenylphosphate	R1: 4 x 105 mL R2: 1 x 20 mL	Up to 14 days	800 U/L	405

## ALT/ SGPT Liqui-UV® (Rate)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2930-430	Reagent		IFCC recommended procedure	R1: 4 x 25 mL R2: 1 x 20 mL	Up to 30 days	600 U/L	340
0285-500	Reagent		IFCC recommended procedure	R1: 4 x 105 mL R2: 1 x 20 mL	Up to 30 days	600 U/L	340


## AST/ SGOT Liqui-UV®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2920-430	Reagent		IFCC recommended procedure	R1: 4 x 30 mL R2: 1 x 20 mL	Up to 30 days	600 U/L	340
2920-500	Reagent		IFCC recommended procedure	R1: 4 x 105 mL R2: 1 x 20 mL	Up to 30 days	600 U/L	340

## Bilirubin Direct LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0245-250	Reagent		Modified Walters-Gerarde	R1: 1 x 250 mL Oxidant: 1 x 15 mL	-	10 mg/dL	540

## Bilirubin Direct LiquiColor® (DCA)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0235-450	Reagent		DCA (2, 4-Dichloroaniline)	R1: 3 x 120 mL R2: 1 x 90 mL	Up to 30 days	10 mg/dL	550



### Bilirubin Total & Direct LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0260-200	Reagent		Modified Walters-Gerarde	R1: 1 x 100 mL R2: 1 x 100 mL Oxidant: 1 x 15 mL Calibrator: 1 x 6 mL (10 mg/dL)	-	10 mg/dL (direct) 20 mg/dL (total) <sup>1</sup>	540

### Bilirubin Total LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0240-080	Reagent		Modified Walters-Gerarde	R1: 1 x 250 mL Oxidant: 1 x 15 mL Calibrator: 1 x 6 mL (10 mg/dL)	-	20 mg/dL	540

### Bilirubin Total LiquiColor® (DCA)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0230-450	Reagent		DCA (2, 4-Dichloroaniline)	R1: 3 x 120 mL R2: 1 x 90 mL	Up to 30 days	0.07 - 30 mg/dL	540

### CO<sub>2</sub> (Sirrus kit)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
S0190-750	Reagent		Phosphoenolpyruvate carboxylase	750 tests	Up to 30 days	50 mEq/L	405

### Cyanmethemoglobin Standard

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0325-006	Standard			6 x 15 mL	-	20 g/dL	540

### Gamma-GT LiquiColor® (Rate)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2960-430	Reagent		Modified Szasz	R1: 4 x 25 mL R2: 1 x 20 mL	Up to 30 days	800 U/L	405
2960-500	Reagent		Modified Szasz	R1: 4 x 105 mL R2: 1 x 20 mL	Up to 30 days	800 U/L	405



### LDH Liqui-UV® (Rate)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2940-430	Reagent		Modified wacker	R1: 4 x 25 mL R2: 1 x 20 mL	Up to 30 days	800 U/L	340
2940-500	Reagent		Pyrogallol red / Colorimetric	R: 1 x 250 mL STD: 1 x 3 mL (100 mg/dL)	Up to 30 days	800 U/L	340

### Protein Micro LiquiColor® (CSF/ Urine)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0345-212	Reagent		Pyrogallol red / Colorimetric	R: 1 x 250 mL STD: 1 x 3 mL (100 mg/dL)	Up to 30 days	150 mg/dL	600

### Protein Total LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0250-500	Reagent		Biuret reaction	R: 2 x 250 mL STD: 1 x 3 mL (10 g/dL)	Up to 30 days	10 g/dL	550



### Calcium (Arsenazo) LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0155-225	Reagent		Arsenazo III	R1: 2 x 250 mL STD: 1 x 3 mL (10 mg/dL)	Up to 30 days	15 mg/dL	650

### Calcium (CPC) LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0150-250	Reagent		Cresolphthalein Complexone	R1: 1 x 125 mL R2: 1 x 125 mL STD: 1 x 3 mL (10 mg/dL)	Up to 10 days	15 mg/dL	550

### Creatinine LiquiColor® (Endpoint)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0430-120	Reagent		Enzymatic	R1: 3 x 30 mL R2: 1 x 30 mL STD: 1 x 5 mL (5 mg/dL)	Up to 30 days	30 mg/dL	550
0430-500	Reagent		Enzymatic	R1: 3 x 125 mL R2: 1 x 125 mL STD: 1 x 5 mL (5 mg/dL)	Up to 30 days	30 mg/dL	550

### Creatinine LiquiColor® (Kinetic)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0420-500	Reagent		Jaffe	R1: 3 x 250 mL R2: 1 x 250 mL STD: 1 x 5 mL (5 mg/dL)	Up to 5 days	20 mg/dL	510

### Protein Micro LiquiColor® (CSF/ Urine)



Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0345-212	Reagent		Pyrogallol red / Colorimetric	R: 1 x 250 mL STD: 1 x 3 mL (100 mg/dL)	Up to 30 days	150 mg/dL	600

### Protein Total LiquiColor®


Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0250-500	Reagent		Biuret reaction	R: 2 x 250 mL STD: 1 x 3 mL (10 g/dL)	Up to 30 days	10 g/dL	550



## Urea Nitrogen (BUN) Liqui-UV® (Rate)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2020-430	Reagent		Modified urease	R1: 4 x 30 mL R2: 1 x 20 mL STD: 1 x 3 mL (30 mg/dL)	Up to 30 days	140 mg/dL	340
2020-500	Reagent		Modified urease	R1: 4 x 125 mL R2: 4 x 20 mL STD: 1 x 3 mL (30 mg/dL)	Up to 30 days	140 mg/dL	340



## Urea Nitrogen (BUN) Test

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0580-250	Reagent		Diacetylmonoxime	250 tests STD 1: 1 x 3 mL (25 mg/dL) STD 2: 1 x 3 mL (50 mg/dL) STD 3: 1 x 3 mL (75 mg/dL)	-	80 mg/dL	520

## Urea Nitrogen Standard (30 mg/dL)




Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
1022-030	Standard			1 x 30 mL	-	-	-

## Uric Acid LiquiColor® (Enzymatic)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
1045-430	Reagent		Trinder	R: 4 x 30 mL STD: 1 x 3 mL (8mg/dL)	Up to 30 days	20 mg/dL	520
1045-225	Reagent		Trinder	R: 2 x 250 mL STD: 1 x 3 mL (8mg/dL)	Up to 30 days	20 mg/dL	520




### Cholesterol LiquiColor® (Enzymatic)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
1010-430	Reagent		Modified Trinder	R: 4 x 30 mL STD: 1 x 3 mL (200 mg/dL)	Up to 30 days	750 mg/dL	500
1010-225	Reagent		Modified Trinder	R: 4 x 250 mL STD: 1 x 3 mL (200 mg/dL)	Up to 30 days	750 mg/dL	500
1011-001	Reagent		Modified Trinder	R: 1 x 1000 mL	Up to 30 days	750 mg/dL	500




### Cholesterol Standard (200 mg/dL)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
1012-030	Standard			1 x 30 mL	-	-	-

### Cholesterol, Direct (HDL/ LDL) calibrator

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0595-003	Calibrator		Lyophilized human serum containing HDL and LDL	1 x 3 mL	-	-	-

### Cholesterol, HDL, Direct LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0590-040	Reagent		Homogeneous method for direct HDL measurement	R1: 1 x 30 mL R2: 1 x 10 mL	Up to 30 days	150 mg/dL	600
0590-080	Reagent		Homogeneous method for direct HDL measurement	R1: 2 x 30 mL R2: 2 x 10 mL	Up to 30 days	150 mg/dL	600
0590-500	Reagent		Homogeneous method for direct HDL measurement	R1: 3 x 125 mL R2: 1 x 125 mL	Up to 30 days	150 mg/dL	600





## Cholesterol, HDL, Test

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0599-020	Reagent		Mg/Dextran sulfate	R: 400 Test (1 x 20 mL) STD: 1 x 3 mL (50 mg/dL)	-	-	-

## Cholesterol, LDL, Direct LiquiColor®

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
0710-080	Reagent		Homogeneous method for direct LDL measurement	R1: 2 x 30 mL R2: 2 x 10 mL	Up to 14 days	520 mg/dL	600

## Triglyceride LiquiColor® (Mono)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2200-430	Reagent		Glycerolphosphate oxidase (GPO)	R: 4 x 30 mL STD: 1 x 2 mL (200 mg/dL)	Up to 30 days	1000 mg/L	500

## Triglyceride LiquiColor® (Mono)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2200-225	Reagent		Glycerolphosphate oxidase (GPO)	R: 2 x 250 mL STD: 1 x 2 mL (200 mg/dL)	Up to 30 days	1000 mg/L	500

## Triglyceride LiquiColor® (Enzymatic)

Reference Number	Type	Media	Methodology	Contents	On-board stability	Linearity	Read (mm)
2100-430	Reagent		Glycerolphosphate oxidase (GPO)	R1: 4 x 30 mL R2: 1 x 1.8 mL STD: 1 x 2 mL (200 mg/dL)	Up to 30 days	1000 mg/L	500
2100-225	Reagent		Glycerolphosphate oxidase (GPO)	R1: 2 x 250 mL R2: 1 x 5.2 mL STD: 1 x 2 mL (200 mg/dL)	Up to 30 days	1000 mg/L	500



# Altair™ 240 chemistry analyzer

## Central laboratory analyzers

Ordering information	Reference No.	Contents
Altair™ 240 with ISE module	G6600-001	1
Altair™ 240 Chemistry Analyzer without ISE module	G6000-001	1

Altair™ 240 consumables		
Systemic Solution Concentrate	A0310-001	1 x 1 liter
Cuvette Cleaner Concentrate	A0315-002	2 x 2 liters
Sample Cups (clear)	9950-001	1 bag of 1000
Extra Wash Cuvette Cleaner	A0300-002	1 x 2 liter
Probe Cleaner	A0305-320	9 x 36 wash-es
R1 Bottles Set - bottles & caps	A0400-020	20 x bottles/caps
R2 Bottles Set - bottles & caps	A0405-020	20 x bottles/caps
Altair 240 Tube Holders	P3140000269	1 x 10 pieces

Altair™ 240 ISE module consumables		
ISE Reagent Pack (Cal. A & Cal. B)	S3141000290	1 Pack
ISE Cleaning Solution	S3141000292	90 mL
Chloride Electrode	S3141000286	1 each
Lithium Electrode	S3141000287	1 each
Potassium Electrode	S3141000285	1 each
Reference Electrode	S3141000288	1 each
Sodium Electrode	S3141000284	1 each
Spacer Electrode	S3141000289	1 each
ISE Pump Tube Kit	S3141000293	1 kit
ISE Fluid Tubing Kit	S3141000294	1 kit
ISE Urine Diluent	S3141000351	1 x 125mL

- Up to 400 tests per hour\*
- .....
- Integrated ISE module for Na+, K+, Li+, Cl (optional)
- .....
- 43 reagents and 49 samples on-board with integrated barcode reader
- .....
- Up to 30-day reagent onboard stability
- .....
- Integrated cuvette washing station
- .....
- User-friendly Windows® interface with LIS bi-directional connectivity
- .....

**Analyzer pack includes:** Analyzer, Universal power supply, User manual, Touch screen computer, Screen lever arm, Mouse

### Specifications

Methodology ..... Photometric method using monochromatic and bichromatic measurement

Photometric linearity ..... 0 to 3.0 OD

Wavelengths ..... (8 discrete) 340, 405, 492, 505, 546, 578, 630, 700 nm

Throughput..... up to 400 tests per hour with optional ISE module or up to 240 tests per hour w/o ISE

Sample volume ..... 1 - 300 µL

Size ..... 93 (w) x 72 (h) x 60 (d) cm

Weight..... 60 kgs

\*Altair™ 240 analyzer is capable of running up to 400 tests per hour with optional ISE module installed.  
Not FDA approved



# A compact, reliable and fully automated benchtop chemistry analyzer

At less than a meter in length, the Altair™ 240 fits easily onto most laboratory benches. It's the ideal solution for labs, doctors' offices, clinics and veterinary labs in need of a benchtop analyzer.



### Throughput

- 43 reagent positions
- Bar-coded and ready-to-use liquid reagents
- Continual 24 hour on-board cooling
- Open channel configuration



### Samples

- Adaptive for various size primary tubes
- 49 patient positions
- Integrated bar code ID reader
- STAT interruption permitted during analysis



## Windows® based Altair™ 240 software for easy operation

Altair 240™ is loaded with Windows® based software that makes learning and operating quick and easy using the intuitive touch-screen. The touchscreen is ideal for displaying Levey-Jennings graphics of quality control levels and work sessions and allows users to access everything they need at the touch of button, including :

- **Auto re-run with auto-dilution options**
- **Active monitoring of reagents and main instrument liquid levels**
- **Water supply, wash solution and waste level tank alarms**

Altair 240™ also features an expandable archive for storing and viewing patient test results and quality control results.



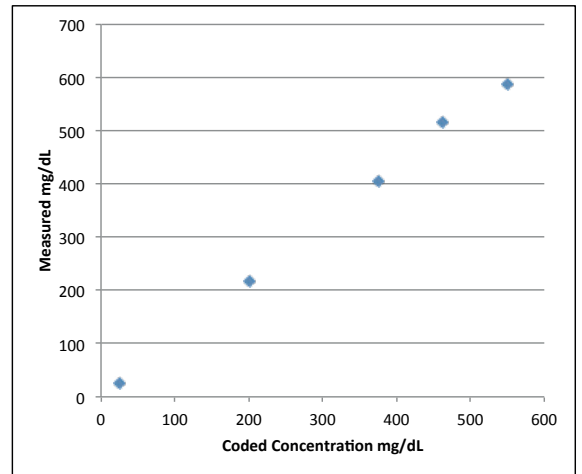
# Altair™ 240 Example Assay Performance Data

Stanbio Glucose LiquiColor® Reagent

## Altair™ 240 Glucose Linearity

Coded	Measured
25	27
200	218
375	407
463	508
550	586

Criteria +/- 10% (mg/dL) Assay is linear up to 500 mg/dL



## Altair™ 240 Glucose Limit of Detection (LoD)

Zero Sample	Concentration in mg/dL	Zero Sample	Concentration in mg/dL
1	2	17	2
2	2	18	2
3	2	19	2
4	2	20	2
5	2	21	3
6	2	22	2
7	2	23	3
8	2	24	2
9	2	25	2
10	2	26	2
11	2	27	2
12	2	28	2
13	2	29	2
14	2	30	2
15	2	31	2
16	2		

Lod = 1.4mg/dL



# Altair™ 240 Glucose Precision

Total Precision			Within Run Precision		
	Level 1	Level 2		Level 1	Level 2
	87	285		85	282
	89	283		86	287
	86	285		85	285
	88	287		86	286
	87	282		86	281
	87	280		87	288
	90	286		87	283
	88	284		87	288
	89	288		86	283
	91	286		86	289
	96	302		86	283
	88	281		88	288
	89	287		85	283
	86	293		88	287
	93	289		87	283
	92	298		87	286
	93	286		85	281
	88	288		86	285
	88	284		85	281
				88	286
mg/dL			mg/dL		
AVG	89	287	AVG	86	285
SD	3.35	7.15	SD	1.03	2.61
CV	3.77	2.49	CV	1.19	0.92

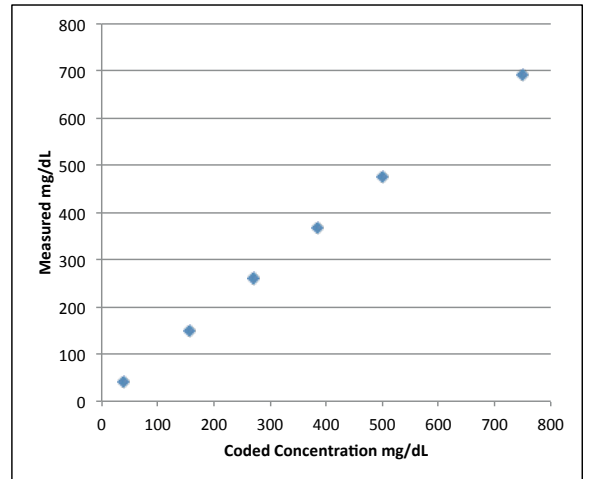


# Stanbio Cholesterol LiquiColor<sup>®</sup> Reagent

## Altair<sup>™</sup> 240 Cholesterol Linearity

Coded	Measured
40	41
155	151
270	260
385	369
500	476
750	692

Criteria +/- 10% (mg/dL) Assay is linear up to 750 mg/dL



## Altair<sup>™</sup> 240 Cholesterol Limit of Detection (LoD)

Zero Sample	Concentration in mg/dL	Zero Sample	Concentration in mg/dL
1	7	16	4
2	6	17	6
3	5	18	6
4	3	19	6
5	5	20	6
6	4	21	6
7	4	22	3
8	4	23	7
9	3	24	4
10	5	25	5
11	6	26	6
12	4	27	9
13	3	28	10
14	4	29	5
15	3	30	8

Lod = 5.9 mg/dL



## Altair™ 240 Cholesterol Precision

Total Precision			Within Run Precision		
	Level 1	Level 2		Level 1	Level 2
	141	296		142	296
	139	302		145	299
	139	299		147	288
	142	297		148	291
	139	304		144	286
	141	297		154	309
	142	303		142	293
	142	302		157	310
	143	297		138	285
	142	297		140	293
	147	303		140	290
	145	298		149	301
	143	297		144	297
	147	293		147	308
	141	297		138	285
	142	294		148	296
	143	298		140	291
	145	297		143	302
	147	303		141	295
				147	297
mg/dL			mg/dL		
AVG	142	298	AVG	145	296
SD	3.4	4.84	SD	5.04	7.57
CV	2.39	1.62	CV	3.48	2.56

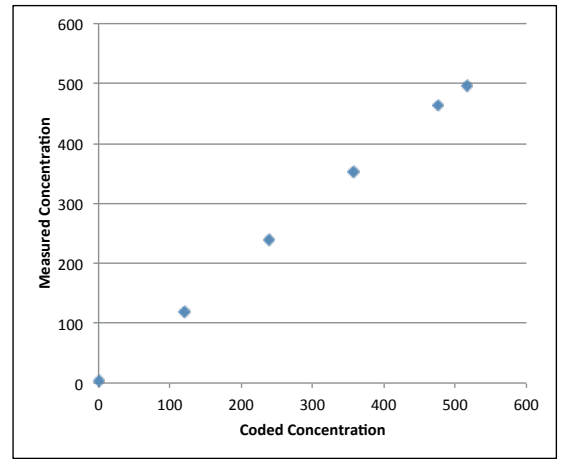


# Stanbio ALT LiquiColor® Reagent

## Altair™ 240 ALT Linearity

Coded	Measured
1	2.5
120	120
239	239
358	354
477	465
517	496

Criteria +/- 10% (mg/dL) Assay is linear up to 500 U/L



## Altair™ 240 ALT Limit of Detection (LoD)

Zero Sample	Concentration in mg/dL	Zero Sample	Concentration in mg/dL
1	3	16	3
2	1	17	3
3	2	18	3
4	3	19	3
5	2	20	2
6	3	21	2
7	2	22	2
8	0	23	2
9	1	24	1
10	4	25	3
11	2	26	2
12	1	27	3
13	0	28	2
14	0	29	2
15	1	30	3

Lod = 2.7 u/L





# Altair™ 240 ALT Precision

Total Precision			Within Run Precision		
	Level 1	Level 2		Level 1	Level 2
	54	131		50	129
	54	130		50	131
	54	131		48	127
	53	131		49	129
	53	126		49	129
	55	129		49	131
	55	130		50	129
	54	130		50	132
	53	128		49	127
	54	131		49	130
	54	128		49	127
				51	128
				49	129
				51	130
				49	129
				50	129
				49	129
				50	129
				51	129
				51	131
mg/dL			mg/dL		
AVG	54	129	AVG	50	129
SD	0.8	1.8	SD	0.88	1.36
CV	1.5	1.4	CV	1.76	1.05

Notes



# Notes





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