

# Uric acid FS\* TOOS

## Order Information

Cat. No.	Kit size	Instrument	Σ
1 3001 99 10 972	R1 3 x 16.8 mL	BX-3010	375 (3 x 125)
		BX-4000	279 (3 x 93)
	R2 3 x 6.7 mL	BX-3010	375 (3 x 125)
		BX-4000	279 (3 x 93)

## Intended Use

Diagnostic reagent for quantitative in vitro determination of uric acid in human serum, heparin plasma or urine on automated Sysmex BX-Series.

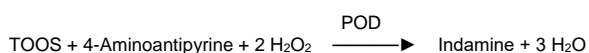
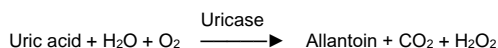
## Summary

Uric acid and its salts are end products of the purine metabolism. In gout, the most common complication of hyperuricemia, increased serum levels of uric acid lead to formation of monosodium urate crystals around the joints. Further causes of elevated blood concentrations of uric acid are renal diseases with decreased excretion of waste products, starvation, drug abuse and increased alcohol consume as well as use of certain medicaments. High uric acid levels also constitute a indirect risk factor for coronary heart disease. [1,2]

## Method

Enzymatic photometric test using TOOS (N-ethyl-N-(hydroxy-3-sulfopropyl)-m-toluidin)

Uric acid is oxidized to allantoin by uricase. The generated hydrogen peroxide reacts with 4-aminoantipyrine and N-ethyl-N-(hydroxy-3-sulfopropyl)-m-toluidin (TOOS) to a blue violet dye. Ascorbate oxidase avoids interference by ascorbic acid.



## Reagents

### Components and Concentrations

<b>R1:</b>	Phosphate buffer	pH 7.0	100 mmol/L
	TOOS		1.25 mmol/L
<b>R2:</b>	Ascorbate oxidase		≥ 1.2 kU/L
	Phosphate buffer	pH 7.0	100 mmol/L
	4-Aminoantipyrine		1.5 mmol/L
	K <sub>4</sub> [Fe(CN) <sub>6</sub> ]		50 μmol/L
	Peroxidase (POD)		≥ 5 kU/L
	Uricase		≥ 250 U/L

## Storage and Stability

Reagents are stable up to the date of expiry indicated on the kit, if stored at 2 – 8°C and contamination is avoided. Protect the reagents from light.

## Warnings and Precautions

- The reagents contain sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
- The reagents contain animal material. Handle the product as potentially infectious according to universal precautions and good clinical laboratory practices.
- N-acetylcysteine (NAC), acetaminophen and metamizole medication leads to falsely low results in patient samples.
- In very rare cases, samples of patients with gammopathy might give falsified results [3].
- Please refer to the safety data sheets and take the necessary precautions for the use of laboratory reagents. For diagnostic purposes, the results should always be assessed with the patient's medical history, clinical examinations and other findings.
- For professional use only.

## Waste Management

Refer to local legal requirements.

## Reagent Preparation

The reagents are ready to use. The bottles are placed directly into the reagent rotor.

## Materials Required

General laboratory equipment

## Specimen

Human serum, heparin plasma or urine

Stability in serum/plasma [4]:

3 days	at	20 – 25°C
7 days	at	4 – 8°C
6 months	at	-20°C

Only freeze once. Discard contaminated specimens.

Stability in urine [5]:

4 days	at	20 – 25°C
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Dilute urine 1 + 10 with dist. water and multiply results by 11.

Discard contaminated specimens.

## Calibrators and Controls

DiaSys TruCal U is recommended for calibration. Calibrator values have been made traceable to the reference method gas chromatography-isotope dilution mass spectrometry (GC-IDMS). Use DiaSys TruLab N and P or TruLab Urine Level 1 and Level 2 for internal quality control. Each laboratory should establish corrective action in case of deviations in control recovery.

	Cat. No.	Kit size
TruCal U	5 9100 99 10 063	20 x 3 mL
	5 9100 99 10 064	6 x 3 mL
TruLab N	5 9000 99 10 062	20 x 5 mL
	5 9000 99 10 061	6 x 5 mL
TruLab P	5 9050 99 10 062	20 x 5 mL
	5 9050 99 10 061	6 x 5 mL
TruLab Urine Level 1	5 9170 99 10 062	20 x 5 mL
	5 9170 99 10 061	6 x 5 mL
TruLab Urine Level 2	5 9180 99 10 062	20 x 5 mL
	5 9180 99 10 061	6 x 5 mL

## Performance Characteristics

Exemplary data mentioned below may slightly differ in case of deviating measurement conditions.

Measuring range up to 20 mg/dL (1190 μmol/L) in serum. In case of higher concentrations re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function.		
Limit of detection**	0.05 mg/dL (3.00 μmol/L)	
Onboard stability	6 weeks	
Calibration stability	6 weeks	
Interfering substance	Interferences ≤ 10% up to	Analyte concentration [mg/dL]
Ascorbic acid	30 mg/dL	5.70 mg/dL (339 μmol/L)
Bilirubin (conjugated)	15 mg/dL	5.06 mg/dL (301 μmol/L)
Bilirubin (unconjugated)	15 mg/dL	6.26 mg/dL (372 μmol/L)
Hemoglobin	500 mg/dL	5.25 g/dL (312 μmol/L)
Lipemia (triglycerides)	2000 mg/dL	5.90 mg/dL (351 μmol/L)
For further information on interfering substances refer to Young DS [6,7].		

Precision (Serum/Plasma) BX-3010			
Within run (n=20)	Sample 1	Sample 2	Sample 3
Mean [mg/dL]	2.72	6.63	10.6
Mean [ $\mu\text{mol/L}$ ]	162	394	632
CV [%]	1.91	1.47	0.712
Between day (n=20)	Sample 1	Sample 2	Sample 3
Mean [mg/dL]	3.37	6.64	10.9
Mean [ $\mu\text{mol/L}$ ]	200	395	649
CV [%]	1.85	1.69	1.11

Method comparison (Serum/Plasma; n=110)	
Test x	Uric acid FS TOOS (BioMajesty 6010C)
Test y	Uric acid FS TOOS (BX-3010)
Slope	1.02
Intercept	0.084 mg/dL (5.00 $\mu\text{mol/L}$ )
Coefficient of correlation	0.9995

Measuring range up to 300 mg/dL (17844  $\mu\text{mol/L}$ ) in urine.  
In case of higher concentrations re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function.

Precision (Urine) BX-3010			
Within run (n=20)	Sample 1	Sample 2	Sample 3
Mean [mg/dL]	6.55	11.5	25.9
Mean [ $\mu\text{mol/L}$ ]	390	682	1538
CV [%]	3.57	2.17	1.75
Between day (n=20)	Sample 1	Sample 2	Sample 3
Mean [mg/dL]	6.27	11.4	25.4
Mean [ $\mu\text{mol/L}$ ]	373	679	1509
CV [%]	4.17	2.58	6.99

Method comparison (Urine; n=82)	
Test x	Uric acid FS TOOS (BX-4000)
Test y	Uric acid FS TOOS (BX-3010)
Slope	0.989
Intercept	0.006 mg/dL (0.351 $\mu\text{mol/L}$ )
Coefficient of correlation	0.999

\*\* lowest measurable concentration which can be distinguished from zero; mean + 3 SD (n = 20) of an analyte free specimen.

#### Conversion Factor

Uric acid [mg/dL] x 59.48 = Uric acid [ $\mu\text{mol/L}$ ]

Uric acid [mg/dL] x 0.05948 = Uric acid [mmol/L]

#### Reference Range

##### Serum/Plasma

	Female		Male	
	[mg/dL]	[ $\mu\text{mol/L}$ ]	[mg/dL]	[ $\mu\text{mol/L}$ ]
<b>Adults</b> [8]	2.6 – 6.0	155 – 357	3.5 – 7.2	208 – 428
<b>Children</b> [9]				
1 – 30 day(s)	1.0 – 4.6	59 – 271	1.2 – 3.9	71 – 230
31 – 365 days	1.1 – 5.4	65 – 319	1.2 – 5.6	71 – 330
1 – 3 year(s)	1.8 – 5.0	106 – 295	2.1 – 5.6	124 – 330
4 – 6 years	2.0 – 5.1	118 – 301	1.8 – 5.5	106 – 325
7 – 9 years	1.8 – 5.5	106 – 325	1.8 – 5.4	106 – 319
10 – 12 years	2.5 – 5.9	148 – 348	2.2 – 5.8	130 – 342
13 – 15 years	2.2 – 6.4	130 – 378	3.1 – 7.0	183 – 413
16 – 18 years	2.4 – 6.6	142 – 389	2.1 – 7.6	124 – 448

##### Urine [1]

≤ 800 mg/24h 4.76 mmol/24h assuming normal diet

≤ 600 mg/24h 3.57 mmol/24h assuming low purine diet

Each laboratory should check if the reference ranges are transferable to its own patient population and determine own reference ranges if necessary.

#### Literature

1. Thomas L. Clinical Laboratory Diagnostics. 1st ed. Frankfurt: TH-Books Verlagsgesellschaft; 1998. p. 208-14.
2. Newman DJ, Price CP. Renal function and nitrogen metabolites. In: Burtis CA, Ashwood ER, editors. Tietz Textbook of Clinical Chemistry. 3rd ed. Philadelphia: W.B Saunders Company; 1999. p. 1204-70.
3. Bakker AJ, Mücke M. Gammopathy interference in clinical chemistry assays: mechanisms, detection and prevention. Clin Chem Lab Med 2007; 45(9):1240-1243.
4. Guder WG, Zawta B et al. The Quality of Diagnostic Samples. 1st ed. Darmstadt: GIT Verlag; 2001. p. 48-9.
5. Guder WG, Zawta B et al. The Quality of Diagnostic Samples. 1st ed. Darmstadt: GIT Verlag; 2001. p. 52-3.
6. Young DS. Effects of Drugs on Clinical Laboratory Tests. 5th ed. Volume 1 and 2. Washington, DC: The American Association for Clinical Chemistry Press 2000.
7. Young DS. Effects on Clinical Laboratory Tests - Drugs Disease, Herbs & Natural Products, <https://clinfx.wiley.com/aaccweb/aacc/>, accessed in July 2021. Published by AACC Press and John Wiley and Sons, Inc.
8. Newman JD, Price PC. Renal function and nitrogen metabolites. In: Burtis CA, Ashwood ER, editors. Tietz Textbook of Clinical Chemistry. 3rd ed. Philadelphia: W.B Saunders Company; 1999. p. 1250.
9. Soldin SJ, Brugnara C, Wong EC. Pediatric Reference Intervals, 6th ed. Washington DC; The American Association for Clinical Chemistry Press, 2007; p. 204-5.



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[www.diasys-diagnostics.com](http://www.diasys-diagnostics.com)

\* Fluid Stable

Chemistry Parameters 1				Sysmex BX-3010 Chemistry Analyzer Analytical Parameters			
Method No.	* <input type="text"/>	Method Name	<input type="text" value="UA"/>	Reagent Name	Reagent (µL)	Water (µL)	
Print Name	<input type="text" value="Uric acid"/>	MethodColor		R1	<input type="text" value="UA"/>	<input type="text" value="100"/>	
Sample Type	<input type="text" value="Serum"/>			R2	<input type="text" value="UA"/>	<input type="text" value="25"/>	
Unit	<input type="text" value="mg/dL"/>			Diluent	<input type="text" value="Disable"/>		
Assay Type	<input type="text" value="End"/>			Sample Ppt. Wash	<input type="text" value="Disable"/>		
Measuring points		Start	End	Stirring Speed R1	<input type="text" value="Middle"/>	R2 <input type="text" value="Middle"/>	
		1 <input type="text" value="22"/>	- <input type="text" value="23"/>				
		2 <input type="text" value="45"/>	- <input type="text" value="46"/>				
Wave Length	Prim. <input type="text" value="546"/>	Sec. <input type="text" value="700"/>		Normal Range			
				No.	Normal Range Name	Min	Max
				1	Male-G1	*	*
				2	Male-G2	*	*
				3	Male-G3	*	*
				4	Female-G1	*	*
Normal	Sample Volume (µL)	Diluted Sample (µL)	Diluent (µL)	Technical Range	(Conc)	<input type="text" value="0.05"/>	- <input type="text" value="20"/>
	Low <input type="text" value="0.0"/> < Normal <input type="text" value="2.0"/> < High <input type="text" value="0.0"/>				(mAbs/10)	<input type="text" value="*"/>	- <input type="text" value="*"/>
<input type="checkbox"/> Diluent				Previous Result Comparison (%)		<input type="text" value="*"/>	- <input type="text" value="*"/> %
<input type="checkbox"/> Rerun (High/Prozone)				Abnormal Range	(Conc)	<input type="text" value="*"/>	- <input type="text" value="*"/>
<input type="checkbox"/> Diluent				Panic Range	(Conc)	<input type="text" value="*"/>	- <input type="text" value="*"/>
<input type="checkbox"/> Rerun (Low)				Decimal Point	<input type="text" value="1"/>	Profile SI	<input type="text" value="Disable"/>
<input type="checkbox"/> Diluent							

\*Entered by user

Chemistry Parameters 2				Sysmex BX-3010 Chemistry Analyzer Analytical Parameters		
Method No.	* <input type="text"/>	Method Name	<input type="text" value="UA"/>	Sample	<input type="text" value="Serum"/>	
Limit Checks				Blank measurement	Blank measurement: <input type="text" value="Disable reagent blank and C1 blank"/>	
<input checked="" type="checkbox"/> Duplicate Limit	<input type="text" value="50"/>	mAbs/10		Measurement of Reagent Blank during Run:	<input type="text" value="None"/>	
<input checked="" type="checkbox"/> Sensitivity Limit	<input type="text" value="500"/>	mAbs/10		Reagent blank measurement at calibration:	<input type="text" value="Reagent blank (No sample)"/>	
<input checked="" type="checkbox"/> Linearity Limit	<input type="text"/>	%		The number of measurement:	<input type="text" value="Duplicate"/>	
	<input type="text"/>	(mAbs/10)/min		Reagent blank limit checks:	<input checked="" type="checkbox"/> Duplicate Limit <input type="text" value="10"/> mAbs/10	
<input type="checkbox"/> Prozone Limit	<input type="text" value="Higher"/>	%		Instrument Factor	a <input type="text" value="1.00"/>	b <input type="text" value="0.00"/>
	<input type="text"/>					
	SL1-S <input type="text"/>	-	SL1-F <input type="text"/>			
	SL2-S <input type="text"/>	-	SL2-F <input type="text"/>			
	Sensitivity <input type="text"/>	mAbs/10				
<input checked="" type="checkbox"/> Absorbance Limit						
	Abs. in reaction <input type="text" value="Increase"/>					
	Limit <input type="text" value="25000"/>	mAbs/10				

# Uric acid FS\* TOOS

Chemistry Code 100 79

Calibration Registration		Sysmex BX-3010 Chemistry Analyzer Analytical Parameters	
Method No.	*	Reagent Lot No. (R1)	*
Method Name	UA	Reagent Lot No. (R2)	*
Sample Type	Serum	Last	
Replication	Duplicate	<p>The calibration curve is lot dependent</p>	
Check Interval	42		
Test without calibration	Disable		
Calibration Type	Linear		
Reagent Lot	New Add		
Calibrator Name	TruCal U	Reagent blank	mAbs/10 Last
Conc.	WORK	MASTER	Calibr. Lot No.
C1	0 Automatic entry	Automatic entry	*
C2	* Automatic entry	Automatic entry	*
C3	* Automatic entry	Automatic entry	*
C4	* Automatic entry	Automatic entry	*
C5	* Automatic entry	Automatic entry	*
C6	* Automatic entry	Automatic entry	*
C7	* Automatic entry	Automatic entry	*
K	Automatic entry	<input type="checkbox"/> C1 Blank <input type="checkbox"/> Reagent Blank for C1	
<p>*Entered by user</p>			

# Uric acid FS\* TOOS

Chemistry Code 100 79

Chemistry Parameters		Sysmex BX-4000 Chemistry Analyzer Analytical Parameters																							
Method	* <input type="text"/>	Name	<input type="text" value="UA"/>																						
Print Name	<input type="text" value="Uric acid"/>	R1	<input type="text" value="UA"/>	<input type="text" value="150"/>	<input type="text"/>																				
Sample	<input type="text" value="Serum"/>	R2	<input checked="" type="checkbox"/> Enable	<input type="text" value="UA"/>	<input type="text" value="38"/>																				
Unit	<input type="text" value="mg/dL"/>																								
Assay Type	<input type="text" value="End"/>	Diluent	<input type="checkbox"/> Enable	<input type="text"/>	<input type="text"/>																				
Measuring points		Start	End	Decimal Points	<input type="text" value="1"/>																				
		1	<input type="text" value="33"/> - <input type="text" value="34"/>																						
<input type="checkbox"/> Enable		2	<input type="text" value="67"/> - <input type="text" value="68"/>																						
Wave Length		Normal Range																							
Prim.	<input type="text" value="546"/>	Sec	<input type="checkbox"/> Disable	<input type="text" value="700"/>																					
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Normal Range Name</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male-G1</td> <td>*</td> <td>*</td> </tr> <tr> <td>2</td> <td>Male-G2</td> <td>*</td> <td>*</td> </tr> <tr> <td>3</td> <td>Male-G3</td> <td>*</td> <td>*</td> </tr> <tr> <td>4</td> <td>Female-G1</td> <td>*</td> <td>*</td> </tr> </tbody> </table>				No.	Normal Range Name	Min	Max	1	Male-G1	*	*	2	Male-G2	*	*	3	Male-G3	*	*	4	Female-G1	*	*
No.	Normal Range Name	Min	Max																						
1	Male-G1	*	*																						
2	Male-G2	*	*																						
3	Male-G3	*	*																						
4	Female-G1	*	*																						
<input type="checkbox"/> Dilution	<input type="text" value="3.0"/>	Sample (µL)	<input type="text"/>	Diluent (µL)	<input type="text"/>																				
<input type="checkbox"/> Rerun (High/Prozone)	<input type="text"/>			Technical Range	(Conc) <input type="text" value="0.05"/> - <input type="text" value="20"/>																				
<input type="checkbox"/> Dilution	<input type="text" value="3.0"/>				(mAbs/10) <input type="text"/>																				
<input type="checkbox"/> Rerun (Low)	<input type="text"/>																								
<input type="checkbox"/> Dilution	<input type="text" value="3.0"/>																								
		SPT Wash	<input type="checkbox"/> Enable	Reagent Name	<input type="text"/>																				
		Stirring Speed	R1	<input type="text" value="Middle"/>	R2 <input type="text" value="Middle"/>																				

\*Entered by user

Chemistry Parameters		Sysmex BX-4000 Chemistry Analyzer Analytical Parameters	
Method No.	* <input type="text"/>	Name	<input type="text" value="UA"/>
Sample	<input type="text" value="Serum"/>		
Limit Checks		Blank measurement	
<input checked="" type="checkbox"/> Duplicate Limit	<input type="text" value="50"/> mAbs/10	Blank measurement:	<input type="text" value="Disable reagent blank and S1 blank"/>
<input checked="" type="checkbox"/> Sensitivity Limit	<input type="text" value="500"/> mAbs/10	Measurement of Reagent Blank during Run:	<input type="text" value="None"/>
<input checked="" type="checkbox"/> Linearity Limit	<input type="text"/> % <input type="text"/> (mAbs/10)/min	Reagent blank measurement at calibration:	<input type="text" value="Reagent blank (No sample)"/>
<input type="checkbox"/> Prozone Limit	<input type="text"/> % <input type="text" value="Upper"/>	The number of measurement:	<input type="text" value="Duplicate"/>
SL1-S	<input type="text"/> - SL1-F <input type="text"/>	Reagent blank limit checks:	<input checked="" type="checkbox"/> Duplicate Limit <input type="text" value="10"/> mAbs/10
SL2-S	<input type="text"/> - SL2-F <input type="text"/>		
Sensitivity	<input type="text"/> mAbs/10	Instrument Factor	
<input checked="" type="checkbox"/> Absorbance Limit		a	<input type="text" value="1.00"/>
Reaction	<input type="text" value="Increase"/>	b	<input type="text" value="0.00"/>
Limit	<input type="text" value="25000"/> mAbs/10		

# Uric acid FS\* TOOS

Chemistry Code 100 79

Registration Calibration		Sysmex BX-4000 Chemistry Analyzer Analytical Parameters																															
<p>Method <input type="text" value="*"/> Name <input type="text" value="UA"/></p> <p>Sample <input type="text" value="Serum"/></p> <p>Sampling <input type="text" value="Duplicate"/></p> <p>Check Interval <input type="text" value="42"/> days</p> <p>Auto <input type="text" value="Change Lot"/> <input type="text" value="Full Calibration"/></p> <p>Auto Interval <input type="text"/> hours</p> <p>Type <input type="text" value="Linear"/> Lot <input type="text" value="New"/></p> <p>Material Name <input type="text" value="TruCal U"/></p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Conc.</th> <th>WORK</th> <th>MASTER</th> <th>Lot No. (S) <input type="checkbox"/> All</th> </tr> </thead> <tbody> <tr> <td>S1</td> <td><input type="text" value="0"/></td> <td>Automatic entry</td> <td>Automatic entry</td> </tr> <tr> <td>S2</td> <td>*</td> <td>Automatic entry</td> <td>Automatic entry</td> </tr> <tr> <td>S3</td> <td>*</td> <td></td> <td></td> </tr> <tr> <td>S4</td> <td>*</td> <td></td> <td></td> </tr> <tr> <td>S5</td> <td>*</td> <td></td> <td></td> </tr> <tr> <td>S6</td> <td>*</td> <td></td> <td></td> </tr> <tr> <td>S7</td> <td>*</td> <td></td> <td></td> </tr> </tbody> </table> <p>K <input type="text" value="Automatic entry"/> <input type="checkbox"/> S1 Blank <input type="checkbox"/> Reagent Blank for S1</p> <p><b>*Entered by user</b></p>	Conc.	WORK	MASTER	Lot No. (S) <input type="checkbox"/> All	S1	<input type="text" value="0"/>	Automatic entry	Automatic entry	S2	*	Automatic entry	Automatic entry	S3	*			S4	*			S5	*			S6	*			S7	*			<p>R Lot No. R1 <input type="text" value="*"/> R2 <input type="text" value="*"/> Last <input type="text"/></p> <div style="text-align: center; margin: 10px 0;"> <p>The calibration curve is lot dependent</p> </div> <p>Reagent blank <input type="text"/> mAbs/10 Last <input type="text"/></p> <p>Blank <input type="text" value="Automatic entry"/> mAbs/10 Last <input type="text"/></p> <p>Type <input type="text"/> Conc. <input type="text"/></p> <p>Absorbance <input type="text"/> mAbs/10 <input type="button" value="Recalculation"/></p>
Conc.	WORK	MASTER	Lot No. (S) <input type="checkbox"/> All																														
S1	<input type="text" value="0"/>	Automatic entry	Automatic entry																														
S2	*	Automatic entry	Automatic entry																														
S3	*																																
S4	*																																
S5	*																																
S6	*																																
S7	*																																

# Uric acid FS\* TOOS

Chemistry Code 100 79

Chemistry Parameters 1				Sysmex BX-3010 Chemistry Analyzer Analytical Parameters																							
Method No.	<input type="text" value="*"/>	Method Name	<input type="text" value="UA U"/>	Reagent Name	Reagent (μL)	Water (μL)																					
Print Name	<input type="text" value="Uric acid"/>	MethodColor		R1	<input type="text" value="UA"/>	<input type="text" value="108"/>																					
Sample Type	<input type="text" value="Urine"/>			R2	<input type="text" value="UA"/>	<input type="text" value="27"/>																					
Unit	<input type="text" value="mg/dL"/>			Diluent	<input type="text" value="Saline"/>																						
Assay Type	<input type="text" value="End"/>			Sample Ppt. Wash	<input type="text" value="Disable"/>																						
Measuring points		Start	End	Stirring Speed R1	<input type="text" value="Middle"/>	R2	<input type="text" value="Middle"/>																				
		1	<input type="text" value="22"/> - <input type="text" value="23"/>																								
		2	<input type="text" value="45"/> - <input type="text" value="46"/>																								
Wave Length	Prim. <input type="text" value="546"/>	Sec. <input type="text" value="700"/>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Normal Range Name</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male-G1</td> <td>*</td> <td>*</td> </tr> <tr> <td>2</td> <td>Male-G2</td> <td>*</td> <td>*</td> </tr> <tr> <td>3</td> <td>Male-G3</td> <td>*</td> <td>*</td> </tr> <tr> <td>4</td> <td>Female-G1</td> <td>*</td> <td>*</td> </tr> </tbody> </table>				No.	Normal Range Name	Min	Max	1	Male-G1	*	*	2	Male-G2	*	*	3	Male-G3	*	*	4	Female-G1	*	*
No.	Normal Range Name	Min	Max																								
1	Male-G1	*	*																								
2	Male-G2	*	*																								
3	Male-G3	*	*																								
4	Female-G1	*	*																								
Normal	Sample Volume (μL)	Diluted Sample (μL)	Diluent (μL)	Technical Range																							
	Low Normal High			(Conc)	<input type="text" value="1.0"/>	-	<input type="text" value="300"/>																				
<input type="checkbox"/> Diluent	<input type="text" value="0.0"/> < <input type="text" value="2.2"/> < <input type="text" value="0.0"/>	<input type="text" value="10.0"/>	<input type="text" value="100"/>	(mAbs/10)	<input type="text" value="*"/>	-	<input type="text" value="*"/>																				
	Rerun (High/Prozone)			Previous Result Comparison (%)	<input type="text" value="*"/>		<input type="text" value="*"/> %																				
<input type="checkbox"/> Diluent	<input type="text" value="0.0"/> < <input type="text" value="2.2"/> < <input type="text" value="0.0"/>	<input type="text" value="10.0"/>	<input type="text" value="100"/>	Abnormal Range	(Conc) <input type="text" value="*"/>	-	<input type="text" value="*"/>																				
	Rerun (Low)			Panic Range	(Conc) <input type="text" value="*"/>	-	<input type="text" value="*"/>																				
<input type="checkbox"/> Diluent	<input type="text" value="0.0"/> < <input type="text" value="2.2"/> < <input type="text" value="0.0"/>	<input type="text" value="10.0"/>	<input type="text" value="100"/>	Decimal Point	<input type="text" value="1"/>	Profile SI	<input type="text" value="Disable"/>																				

\*Entered by user

Chemistry Parameters 2				Sysmex BX-3010 Chemistry Analyzer Analytical Parameters			
Method No.	<input type="text" value="*"/>	Method Name	<input type="text" value="UA U"/>	Sample	<input type="text" value="Urine"/>		
Limit Checks	<input checked="" type="checkbox"/> Duplicate Limit <input type="text" value="50"/> mAbs/10 <input checked="" type="checkbox"/> Sensitivity Limit <input type="text" value="500"/> mAbs/10 <input checked="" type="checkbox"/> Linearity Limit <input type="text" value=""/> % <input type="text" value=""/> (mAbs/10)/min <input type="checkbox"/> Prozone Limit <input type="text" value="Higher"/> % <input type="text" value=""/> SL1-S <input type="text" value=""/> - SL1-F <input type="text" value=""/> SL2-S <input type="text" value=""/> - SL2-F <input type="text" value=""/> Sensitivity <input type="text" value=""/> mAbs/10						
<input checked="" type="checkbox"/> Absorbance Limit	Abs. in reaction <input type="text" value="Increase"/> Limit <input type="text" value="25000"/> mAbs/10						
Blank measurement				Blank measurement: <input type="text" value="Disable reagent blank and C1 blank"/> Measurement of Reagent Blank during Run: <input type="text" value="None"/> Reagent blank measurement at calibration: <input type="text" value="Reagent blank (No sample)"/> The number of measurement: <input type="text" value="Duplicate"/> Reagent blank limit checks: <input checked="" type="checkbox"/> Duplicate Limit <input type="text" value="10"/> mAbs/10			
Instrument Factor				a <input type="text" value="1.00"/> b <input type="text" value="0.00"/>			

# Uric acid FS\* TOOS

Chemistry Code 100 79

## Calibration Registration

## Sysmex BX-3010 Chemistry Analyzer Analytical Parameters

Method No.

Method Name

Sample Type

Replication

Check Interval

Test without calibration

Calibration Type

Reagent Lot

Calibrator Name

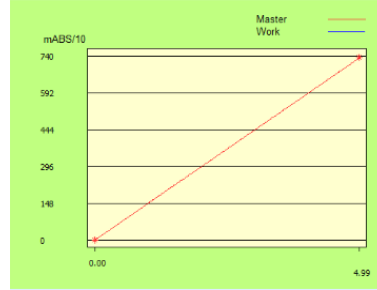
	Conc.	WORK	MASTER	Calibr. Lot No.	<input type="checkbox"/> All
C1	0	Automatic entry	Automatic entry	*	
C2	*	Automatic entry	Automatic entry	*	
C3	*				
C4	*				
C5	*				
C6	*				
C7	*				

K   C1 Blank  
 Reagent Blank for C1

Reagent Lot No.

(R1)   
 (R2)

Last



The calibration curve is lot dependent

Reagent blank  mAbs/10 Last

Blank  mAbs/10 Last

Calibration Curve  Conc.

Absorbance  mAbs/10

\*Entered by user





# Uric acid FS\* TOOS

Chemistry Code 100 79

## Registration Calibration

## Sysmex BX-4000 Chemistry Analyzer Analytical Parameters

Method  Name

R Lot No. R1  Last

Sample

R2

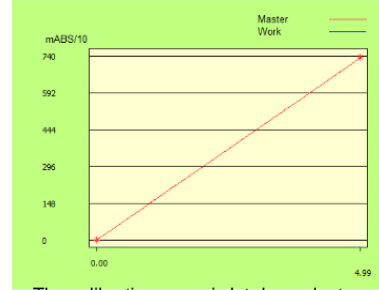
Sampling

Check Interval  days

Auto

Auto Interval  hours

Type  Lot



Material Name

The calibration curve is lot dependent

Reagent blank  mAbs/10 Last

Blank  mAbs/10 Last

Type  Conc.

Absorbance  mAbs/10

Conc.	WORK	MASTER	Lot No. (S) <input type="checkbox"/> All
S1	0	Automatic entry	Automatic entry
S2	*	Automatic entry	Automatic entry
S3	*		
S4	*		
S5	*		
S6	*		
S7	*		

K   S1 Blank  Reagent Blank for S1

\*Entered by user