

# Urea FS\*

**Diagnostic reagent for quantitative in vitro determination of urea in serum, plasma or urine on Sysmex BX-Series**

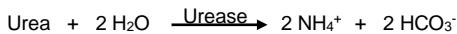
## Order information

| Cat. No.         | Kit size       | Number of tests                               |
|------------------|----------------|---|
| 1 3101 99 10 972 | R1 3 x 18.6 mL | BX-3010 3 x 120 tests<br>BX-4000 3 x 98 tests |
|                  | R2 3 x 7.1 mL  | BX-3010 3 x 120 tests<br>BX-4000 3 x 98 tests |
|                  |                |   |

## Method

"Urease – GLDH": enzymatic UV test

## Principle



GLDH: Glutamate dehydrogenase

## Reagents

### Components and Concentrations

|     |  |        |             |
|-----|--|--------|-------------|
| R1: | TRIS                                   | pH 7.8 | 150 mmol/L  |
|     | 2-Oxoglutarate                         |        | 9 mmol/L    |
|     | ADP                                    |        | 0.75 mmol/L |
|     | Urease                                 |        | ≥ 7 kU/L    |
|     | GLDH (Glutamate dehydrogenase, bovine) |        | ≥ 1 kU/L    |
| R2: | NADH                                   |        | 1.3 mmol/L  |

## Storage Instructions and Reagent Stability

The reagents are stable up to the end of the indicated month of expiry, if stored at 2 – 8 °C, protected from light and contamination is avoided. Do not freeze the reagents!

## Warnings and Precautions

- The reagents contain sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
- Reagent 1 contains animal material. Handle the product as potentially infectious according to universal precautions and good laboratory practice.
- In very rare cases, samples of patients with gammopathy might give falsified results [6].
- 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

Please refer to local legal requirements.

## Reagent Preparation

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

## Specimen

Serum, plasma (no ammonium heparin!), fresh urine

### Stability [1]

in serum or plasma:

|           |    |           |
|-----------|----|-----------|
| 7 days    | at | 20 – 25°C |
| 7 days    | at | 4 – 8°C   |
| 1 year    | at | -20°C     |
| in urine: |    |           |
| 2 days    | at | 20 – 25°C |
| 7 days    | at | 4 – 8°C   |
| 1 month   | at | -20°C     |

Discard contaminated specimens. Freeze only once.

TruLab Urine controls must be prediluted the same way as patient samples.

## Calibrators and Controls

For calibration the DiaSys TruCal U calibrator is recommended. The assigned values of the calibrators have been made traceable to the reference material NIST SRM®-909 Level 1. For internal quality control DiaSys TruLab N, TruLab P and TruLab Urine controls should be assayed. Each laboratory should establish corrective action in case of deviations in control recovery.

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

## Performance Characteristics

Measuring range in serum up to 300 mg/dL (50.0 mmol/L) urea (in case of higher concentrations re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function).

|                       |                             |
|-----------------------|-----------------------------|
| Limit of detection**  | 1 mg/dL (0.167 mmol/L) urea |
| On-board stability    | 6 weeks                     |
| Calibration stability | 6 weeks                     |

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

| Interfering substance   | Interferences < 10% | Analyte concentration    |
|---|---------------------|--------------------------|
| Ascorbate   | up to 30 mg/dL      | 33.0 mg/dL (5.50 mmol/L) |
| Hemoglobin  | up to 500 mg/dL     | 32.9 mg/dL (5.47 mmol/L) |
| Bilirubin, conjugated   | up to 60 mg/dL      | 32.9 mg/dL (5.47 mmol/L) |
| Bilirubin, unconjugated   | up to 60 mg/dL      | 33.5 mg/dL (5.58 mmol/L) |
| Lipemia (triglycerides)   | up to 2000 mg/dL    | 44.3 mg/dL (7.37 mmol/L) |
| Ammonium ions interfere; therefore do not use ammonium heparin as anticoagulant for collection of plasma! |                     |                          |
| For further information on interfering substances refer to Young DS [5].                                  |                     |                          |

## Precision (Serum/plasma) BX-4000

| Within run (n=20)            | Sample 1 | Sample 2 | Sample 3 |
|------------------------------|----------|----------|----------|
| Mean [mg/dL]                 | 19.0     | 53.5     | 150      |
| Mean [mmol/L]                | 3.16     | 8.90     | 24.9     |
| Coefficient of variation [%] | 1.38     | 0.786    | 0.683    |
| Between run (n=20)           | Sample 1 | Sample 2 | Sample 3 |
| Mean [mg/dL]                 | 19.0     | 53.0     | 145      |
| Mean [mmol/L]                | 3.16     | 8.83     | 24.2     |
| Coefficient of variation [%] | 1.70     | 1.50     | 1.20     |

## Method comparison serum ( n=108)

|                            |                            |
|----------------------------|----------------------------|
| Test x                     | Urea FS (BioMajesty 6010C) |
| Test y                     | Urea FS (BX-4000)          |
| Slope                      | 0.973                      |
| Intercept                  | 1.02 mg/dL (0.170 mmol/L)  |
| Coefficient of correlation | 0.9998                     |

Measuring range in urine up to 30000 mg/dL (5000 µmol/L) urea (in case of higher concentrations re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function).

## Precision (Urine) BX-4000

| Within run (n=20)            | Sample 1 | Sample 2 | Sample 3 |
|------------------------------|----------|----------|----------|
| Mean [mg/dL]                 | 883      | 1841     | 2574     |
| Mean [mmol/L]                | 147      | 307      | 429      |
| Coefficient of variation [%] | 3.76     | 2.73     | 3.04     |
| Between run (n=20)           | Sample 1 | Sample 2 | Sample 3 |
| Mean [mg/dL]                 | 886      | 1936     | 2594     |
| Mean [mmol/L]                | 147      | 322      | 432      |
| Coefficient of variation [%] | 4.27     | 1.83     | 2.30     |

| Method comparison urine (n=74) |                           |
|--------------------------------|---------------------------|
| Test x                         | Urea FS (BX-4000)         |
| Test y                         | Urea FS (BX-3010)         |
| Slope                          | 0.957                     |
| Intercept                      | 3.57 mg/dL (0.595 mmol/L) |
| Coefficient of correlation     | 0.999                     |

#### Conversion factor

Urea [mg/dL] x 0.1665 = Urea [mmol/L]

Urea [mg/dL] x 0.467 = BUN [mg/dL]

BUN [mg/dL] x 2.14 = Urea [mg/dL]

(BUN: Blood urea nitrogen)

#### Reference Range

##### Serum/Plasma [2]

|                  | [mg/dL] | [mmol/L]  |
|------------------|---------|-----------|
| <b>Adults</b>    |         |           |
| Global           | 17 – 43 | 2.8 – 7.2 |
| Women < 50 years | 15 – 40 | 2.6 – 6.7 |
| Women > 50 years | 21 – 43 | 3.5 – 7.2 |
| Men < 50 years   | 19 – 44 | 3.2 – 7.3 |
| Men > 50 years   | 18 – 55 | 3.0 – 9.2 |
| <b>Children</b>  |         |           |
| 1 – 3 year(s)    | 11 – 36 | 1.8 – 6.0 |
| 4 – 13 years     | 15 – 36 | 2.5 – 6.0 |
| 14 – 19 years    | 18 – 45 | 2.9 – 7.5 |

|                  | [mg/dL]     | [mmol/L]  |
|------------------|-------------|-----------|
| <b>Adults</b>    |             |           |
| Global           | 7.94 – 20.1 | 2.8 – 7.2 |
| Women < 50 years | 7.01 – 18.7 | 2.6 – 6.7 |
| Women > 50 years | 9.81 – 20.1 | 3.5 – 7.2 |
| Men < 50 years   | 8.87 – 20.5 | 3.2 – 7.3 |
| Men > 50 years   | 8.41 – 25.7 | 3.0 – 9.2 |
| <b>Children</b>  |             |           |
| 1 – 3 year(s)    | 5.14 – 16.8 | 1.8 – 6.0 |
| 4 – 13 years     | 7.01 – 16.8 | 2.5 – 6.0 |
| 14 – 19 years    | 8.41 – 21.0 | 2.9 – 7.5 |

##### Urea/Creatinine ratio [2]

25 – 40 [(mmol/L)/(mmol/L)]

20 – 35 [(mg/dL)/(mg/dL)]

##### Urea in Urine [3]

26 – 43 g/24h (0.43 – 0.72 mol/24h)

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

#### Literature

1. Guder WG, Zawta B et al. The Quality of Diagnostic Samples. 1<sup>st</sup> ed. Darmstadt: GIT Verlag; 2001; p. 48-9, 52-3.
2. Thomas L. Clinical Laboratory Diagnostics. 1<sup>st</sup> ed. Frankfurt: TH-Books Verlagsgesellschaft; 1998. p. 374-7.
3. Burtis CA, Ashwood ER, editors. Tietz Textbook of Clinical Chemistry. 3<sup>rd</sup> ed. Philadelphia: W.B Saunders Company; 1999. p. 1838.
4. Talke H, Schubert GE. Enzymatische Harnstoffbestimmung in Blut und Serum im optischen Test nach Warburg (Enzymatic determination of urea in blood and serum with the optical test according to Warburg). Klin Wschr 1965; 43: 174-5.
5. 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.
6. Bakker AJ, Mücke M. Gammopathy interference in clinical chemistry assays: mechanisms, detection and prevention. Clin Chem Lab Med 2007; 45(9):1240-1243.

#### Manufacturer



DiaSys Diagnostic Systems GmbH  
Alte Strasse 9 65558 Holzheim Germany

| <b>Chemistry Parameters 1</b>                         |  | <b>Sysmex BX-3010 Chemistry Analyzer Analytical Parameters</b> |                                       |  |   |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|---|--|--|---------------------------------------|--|---|---|-------------------|-----|-----|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-----------|---|---|
| Method No.  | <input type="text" value="*"/>         | Method Name  | <input type="text" value="UREA"/>     | Reagent Name   | Reagent ( $\mu$ L)                      |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Print Name  | <input type="text" value="Urea"/>      | MethodColor  |                                       | R1 <input type="text" value="UREA"/>   | 120 <input type="text"/>                |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Sample Type   | <input type="text" value="Serum"/>     |  |                                       | R2 <input type="text" value="UREA"/>   | 30 <input type="text"/>                 |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Unit  | <input type="text" value="mg/dL"/>     |  |                                       | Diluent <input type="text" value="Disable"/>   | <input type="text"/>                    |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Assay Type  | <input type="text" value="Rate"/>      |  |                                       | Sample Ppt. Wash <input type="text" value="Disable"/>  |   |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Measuring points                                      |  | Start <input type="text" value="27"/>                          | End <input type="text" value="33"/>   | Stirring Speed R1 <input type="text" value="Middle"/>  | R2 <input type="text" value="Middle"/>  |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Wave Length   | Prim. <input type="text" value="340"/> | Sec. <input type="text" value="415"/>                          |                                       | <table border="1"> <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 Diluent  | Low <input type="text" value="0.0"/>   | Normal <input type="text" value="1.5"/>                        | High <input type="text" value="0.0"/> | Diluted Sample ( $\mu$ L) <input type="text"/>   | Diluent ( $\mu$ L) <input type="text"/> | Technical Range (Conc) <input type="text" value="2"/> - <input type="text" value="300"/><br>(mAbs/10) <input type="text" value="*"/> - <input type="text" value="*"/> |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Diluent Rerun (High/Prozone) | <input type="text" value="0.0"/>       | <input type="text" value="1.5"/>                               | <input type="text" value="0.0"/>      |  |   | Previous Result Comparison (%) <input type="text" value="*"/> - <input type="text" value="*"/> %  |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Diluent Rerun (Low)          | <input type="text" value="0.0"/>       | <input type="text" value="1.5"/>                               | <input type="text" value="0.0"/>      |  |   | Abnormal Range (Conc) <input type="text" value="*"/> - <input type="text" value="*"/>   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Diluent                      | <input type="text" value="0.0"/>       | <input type="text" value="1.5"/>                               | <input type="text" value="0.0"/>      |  |   | Panic Range (Conc) <input type="text" value="2"/> - <input type="text" value="300"/>  |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|   |  |  |                                       |  |   | Decimal Point <input type="text" value="1"/> Profile SI <input type="text" value="Disable"/>  |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| *Entered by user                                      |  |  |                                       |  |   |   |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |

| <b>Chemistry Parameters 2</b> |  | <b>Sysmex BX-3010 Chemistry Analyzer Analytical Parameters</b> |   |                                     |                                    |
|-------------------------------|--|--|---|-------------------------------------|------------------------------------|
| Method No.                    | <input type="text" value="*"/>                         | Method Name  | <input type="text" value="UREA"/>   | Sample                              | <input type="text" value="Serum"/> |
| Limit Checks                  |  |  |   |                                     |                                    |
| ✓ Duplicate Limit             | <input type="text" value="100"/>                       | mAbs/10  | Blank measurement   |                                     |                                    |
| ✓ Sensitivity Limit           | <input type="text" value="1000"/>                      | mAbs/10  | Blank measurement:<br><input type="text" value="Disable reagent blank and C1 blank"/>               |                                     |                                    |
| ✓ Linearity Limit             | <input type="text" value="10"/>                        | %  | Measurement of Reagent Blank during Run:<br><input type="text" value="None"/>                       |                                     |                                    |
| ✗ Prozone Limit               | <input type="text" value="370"/>                       | (mAbs/10)/min  | Reagent blank measurement at calibration:<br><input type="text" value="Reagent blank (No sample)"/> |                                     |                                    |
|                               | <input type="text" value="Higher"/>                    | %  | The number of measurement:<br><input type="text" value="Duplicate"/>                                |                                     |                                    |
|                               | <input type="text"/>                                   |  | Reagent blank limit checks:   |                                     |                                    |
|                               | SL1-S <input type="text"/>                             | - SL1-F <input type="text"/>                                   | ✓ 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   |                                     |                                    |
| ✓ Absorbance Limit            | Abs. in reaction <input type="text" value="Decrease"/> |  | a <input type="text" value="1.00"/>   | b <input type="text" value="0.00"/> |                                    |
|                               | Limit <input type="text" value="9000"/>                | mAbs/10  |   |                                     |                                    |

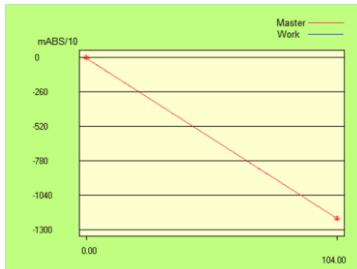
| <u>Calibration Registration</u>   |                 | <b>Sysmex BX-3010 Chemistry Analyzer</b><br><b>Analytical Parameters</b> |   |                              |
|---|-----------------|--|---|------------------------------|
| Method No.  | *               | (R1)<br>(R2)   | *   | Reagent Lot No.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

| <u>Chemistry Parameters</u>  |  | Sysmex BX-4000 Chemistry Analyzer<br>Analytical Parameters |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|--|--|--|--|--|-----|-------------------|-----|-----|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-----------|---|---|
| Method   | <input type="text" value="*"/>         | Name   | UREA                                       | Reagent Name   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Print Name   | Urea                                   | R1   | UREA                                       | Reagent ( $\mu$ L)   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Sample   | Serum                                  | R2   | <input checked="" type="checkbox"/> Enable | UREA   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Unit   | mg/dL                                  |  |  | 40   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Assay Type   | Rate                                   | Diluent  | <input type="checkbox"/> Enable            |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Measuring points   | Start                                  | End  | Decimal Points                             | <input type="text" value="0"/>   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|  | <input type="text" value="1"/> 40      | -  | <input type="text" value="49"/>            |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Enable  | <input type="text" value="2"/>         | -  | <input type="text" value=""/>              |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Wave Length  | Prim. <input type="text" value="340"/> | Sec  | <input type="checkbox"/> Disable           | <input type="text" value="415"/>   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <table border="1"> <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 Dilution  | <input type="text" value="2.0"/>       | Sampling Sample ( $\mu$ L)                                 | <input type="text" value=""/>              | Diluent ( $\mu$ L)   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Rerun (High/Prozone)  | <input type="text" value=""/>          |  |  | Technical Range  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Dilution  | <input type="text" value="2.0"/>       |  |  | (Conc) <input type="text" value="2"/> - <input type="text" value="300"/> |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Rerun (Low)   | <input type="text" value="2.0"/>       |  |  | (mAbs/10) <input type="text" value=""/> - <input type="text" value=""/>  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Dilution  | <input type="text" value=""/>          |  |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| SPT Wash   | <input type="checkbox"/> Enable        | Reagent Name   |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Stirring Speed   | R1 <input type="text" value="Middle"/> | R2 <input type="text" value="Middle"/>                     |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |

\*Entered by user

| <u>Chemistry Parameters</u>                           |                                       | Sysmex BX-4000 Chemistry Analyzer<br>Analytical Parameters |   |   |
|---|---------------------------------------|--|---|---|
| Method No.  | <input type="text" value="*"/>        | Name   | UREA  | Sample  |
| Sample  | Serum                                 |  |   |   |
| Limit Checks  |                                       |  |   |   |
| <input checked="" type="checkbox"/> Duplicate Limit   | <input type="text" value="100"/>      | mAbs/10  | Blank measurement   |   |
| <input checked="" type="checkbox"/> Sensitivity Limit | <input type="text" value="1000"/>     | mAbs/10  | Blank measurement:<br><input type="text" value="Disable reagent blank and S1 blank"/>       |   |
| <input checked="" type="checkbox"/> Linearity Limit   | <input type="text" value="10"/>       | % <input type="text" value=""/>                            | (mAbs/10)/min   | Measurement of Reagent Blank during Run:<br><input type="text" value="None"/>                       |
| <input type="checkbox"/> Prozone Limit                | <input type="text" value=""/>         | % <input type="text" value=""/>                            | Upper   | Reagent blank measurement at calibration:<br><input type="text" value="Reagent blank (No sample)"/> |
| SL1-S   | <input type="text" value=""/>         | -  | SL1-F <input type="text" value=""/>   | The number of measurement:<br><input type="text" value="Duplicate"/>                                |
| SL2-S   | <input type="text" value=""/>         | -  | SL2-F <input type="text" value=""/>   | Reagent blank limit checks:   |
| Sensitivity   | <input type="text" value=""/>         | mAbs/10  | <input checked="" type="checkbox"/> Duplicate Limit <input type="text" value="10"/> mAbs/10 |   |
| <input checked="" type="checkbox"/> Absorbance Limit  |                                       |  |   |   |
| Reaction  | <input type="text" value="Decrease"/> |  |   |   |
| Limit   | <input type="text" value="9000"/>     | mAbs/10  | a <input type="text" value="1.00"/>   | b <input type="text" value="0.00"/>   |

| <u>Registration Calibration</u>                     |   | Sysmex BX-4000 Chemistry Analyzer<br>Analytical Parameters |  |                              |
|---|---|--|--|------------------------------|
| Method <input type="text" value="*"/>               | Name <input type="text" value="UREA"/>        | R Lot No.  | R1 <input type="text" value="*"/><br>R2 <input type="text" value="*"/> | Last <input type="text"/>    |
| Sample <input type="text" value="Serum"/>           |   |  |  |                              |
| Sampling <input type="text" value="Duplicate"/>     |   |  |  |                              |
| Check Interval <input type="text" value="42"/> days |   |  |  |                              |
| Auto <input type="text" value="Change Lot"/>        | <input type="text" value="Full Calibration"/> |  |  |                              |
| Auto Interval <input type="text"/>                  | hours   |  |  |                              |
| Type <input type="text" value="Linear"/>            | Lot <input type="text" value="New"/>          |  |  |                              |
| Material Name <input type="text" value="TruCal U"/> |   |  |  |                              |
| 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 <input type="checkbox"/> Automatic entry          | <input type="checkbox"/> S1 Blank             | <input type="checkbox"/> Reagent Blank for S1              |  |                              |
| *Entered by user                                    |   |  |  |                              |


  
 The calibration curve is lot dependent

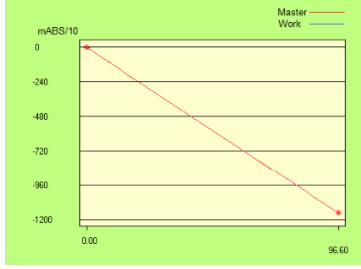
|  |                              |  |
|--|------------------------------|--|
| Reagent blank <input type="text"/>                 | mAbs/10 <input type="text"/> | Last <input type="text"/>                    |
| Blank <input type="text" value="Automatic entry"/> | mAbs/10 <input type="text"/> | Last <input type="text"/>                    |
| Type <input type="text"/>                          | Conc. <input type="text"/>   |  |
| Absorbance <input type="text"/>                    | mAbs/10 <input type="text"/> | <input type="button" value="Recalculation"/> |

# Urea FS

# Chemistry Code 100 76

| Chemistry Parameters 1           |   | Sysmex BX-3010 Chemistry Analyzer Analytical Parameters   |                                  |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|----------------------------------|---|---|----------------------------------|---|---|---|--------------|--|--|-----|-------------------|-----|-----|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-----------|---|---|
| Method No.                       | <input type="text" value="*"/>  | Method Name   | UREA                             | Reagent Name  | Reagent ( $\mu$ L)  | Water ( $\mu$ L)                            |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Print Name                       | Urea  | MethodColor   |                                  | R1 UREA   | 160   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Sample Type                      | Urine   |   |                                  | R2 UREA   | 40  |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Unit                             | mg/dL   |   |                                  | Diluent   | Disable   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Assay Type                       | Rate  |   |                                  | Sample Ppt. Wash  | Disable   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Measuring points                 |   | Start   | End                              | Stirring Speed R1   | Middle  | R2 Middle                                   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                  | 1   | <input type="text" value="27"/>   | -                                | <input type="text" value="34"/>   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                  | 2   | <input type="text" value="Disable"/>  | -                                | <input type="text" value=""/>   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Wave Length                      | Prim. <input type="text" value="340"/>  | Sec. <input type="text" value="415"/>   |                                  | <table border="1"> <thead> <tr> <th colspan="3">Normal Range</th> </tr> <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> |   |   | Normal Range |  |  | No. | Normal Range Name | Min | Max | 1 | Male-G1 | * | * | 2 | Male-G2 | * | * | 3 | Male-G3 | * | * | 4 | Female-G1 | * | * |
| Normal Range                     |   |   |                                  |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| No.                              | Normal Range Name   | Min   | Max                              |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| 1                                | Male-G1   | *   | *                                |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| 2                                | Male-G2   | *   | *                                |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| 3                                | Male-G3   | *   | *                                |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| 4                                | Female-G1   | *   | *                                |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Normal                           | Sample Volume ( $\mu$ L)  | Diluted Sample ( $\mu$ L)   | Diluent ( $\mu$ L)               | Technical Range   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Diluent | <input type="text" value="0.0"/> < <input type="text" value="2.0"/> < <input type="text" value="0.0"/> <input type="text" value="2.0"/> | <input type="text" value="200"/>  |                                  | (Conc) <input type="text" value="200"/> - <input type="text" value="33000"/><br>(mAbs/10) <input type="text" value="*"/> - <input type="text" value="*"/>   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Rerun<br>(High/Prozone)          | <input type="checkbox"/> Diluent  | <input type="text" value="0.0"/> < <input type="text" value="2.0"/> < <input type="text" value="0.0"/> <input type="text" value="2.0"/> | <input type="text" value="200"/> | Previous Result Comparison (%)  | <input type="text" value="*"/> - <input type="text" value="*"/> %                               |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Rerun (Low)                      | <input type="checkbox"/> Diluent  | <input type="text" value="0.0"/> < <input type="text" value="2.0"/> < <input type="text" value="0.0"/> <input type="text" value="2.0"/> | <input type="text" value="200"/> | Abnormal Range  | <input type="checkbox"/> (Conc) <input type="text" value="*"/> - <input type="text" value="*"/> |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                  |   |   |                                  | Panic Range   | <input type="checkbox"/> (Conc) <input type="text" value=""/> - <input type="text" value=""/>   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                  |   |   |                                  | Decimal Point   | <input type="text" value="0"/>  | Profile SI <input type="checkbox"/> Disable |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| *Entered by user                 |   |   |                                  |   |   |   |              |  |  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |

| Chemistry Parameters 2                 |  | Sysmex BX-3010 Chemistry Analyzer Analytical Parameters |   |                                     |       |  |
|--|--|---|---|-------------------------------------|-------|--|
| Method No.                             | <input type="text" value="*"/>                     | Method Name   | UREA  | Sample                              | Serum |  |
| Limit Checks                           |  |   | Blank measurement   |                                     |       |  |
| ✓ Duplicate Limit                      | <input type="text" value="100"/>                   | mAbs/10   | Blank measurement:<br><input type="checkbox"/> Disable reagent blank and C1 blank               |                                     |       |  |
| ✓ Sensitivity Limit                    | <input type="text" value="1000"/>                  | mAbs/10   |   |                                     |       |  |
| ✓ Linearity Limit                      | <input type="text" value="10"/>                    | %   | Measurement of Reagent Blank during Run:<br><input type="checkbox"/> None                       |                                     |       |  |
|  | <input type="text" value="370"/>                   | (mAbs/10)/min   | Reagent blank measurement at calibration:<br><input type="checkbox"/> Reagent blank (No sample) |                                     |       |  |
| <input type="checkbox"/> Prozone Limit | <input type="text" value="Higher"/>                | %   | The number of measurement:<br><input type="checkbox"/> Duplicate                                |                                     |       |  |
|  | <input type="text" value=""/>                      |   | Reagent blank limit checks:   |                                     |       |  |
|  | SL1-S <input type="text" value=""/>                | - SL1-F <input type="text" value=""/>                   | <input type="checkbox"/> Duplicate Limit <input type="text" value="10"/> mAbs/10                |                                     |       |  |
|  | SL2-S <input type="text" value=""/>                | - SL2-F <input type="text" value=""/>                   |   |                                     |       |  |
|  | Sensitivity <input type="text" value=""/>          | mAbs/10   | Instrument Factor   |                                     |       |  |
| ✓ Absorbance Limit                     | Abs. in reaction <input type="checkbox"/> Decrease |   | a <input type="text" value="1.00"/>   | b <input type="text" value="0.00"/> |       |  |
|  | Limit <input type="text" value="9000"/>            | mAbs/10   |   |                                     |       |  |

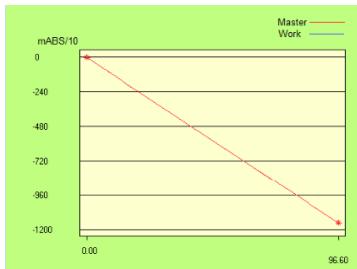
| <u>Calibration Registration</u>   |  |  |                 | Sysmex BX-3010 Chemistry Analyzer<br>Analytical Parameters |                 |               |      |
|---|--|--|-----------------|--|-----------------|---------------|------|
| Method No.  | *                                      | Reagent Lot No.  | (R1)            | *  | Last            |               |      |
| Method Name   | UREA                                   | (R2)   | *               |  |                 |               |      |
| Sample Type   | Serum                                  |  |                 |  |                 |               |      |
| Replication   | Duplicate                              |  |                 |  |                 |               |      |
| Check Interval  | 42                                     |  |                 |  |                 |               |      |
| Test without calibration  | <input type="button" value="Disable"/> |  |                 |  |                 |               |      |
| Calibration Type  | Linear                                 |  |                 |  |                 |               |      |
| Reagent Lot   | New                                    | Add  |                 |  |                 |               |      |
| Calibrator Name   | TruCal U                               |  |                 |  |                 |               |      |
| Conc.   | WORK                                   | MASTER   | Calibr. Lot No. | <input type="checkbox"/> All                               |                 |               |      |
| C1  | 0.0                                    | Automatic entry  | Automatic entry | *  |                 |               |      |
| C2  | *                                      | Automatic entry  | Automatic entry | *  |                 |               |      |
| C3  | *                                      |  |                 |  |                 |               |      |
| C4  | *                                      |  |                 |  |                 |               |      |
| C5  | *                                      |  |                 |  |                 |               |      |
| C6  | *                                      |  |                 |  |                 |               |      |
| C7  | *                                      |  |                 |  |                 |               |      |
| <input type="checkbox"/> K Automatic entry <input type="checkbox"/> C1 Blank<br><input type="checkbox"/> Reagent Blank for C1 |  |  |                 |  |                 |               |      |
| *Entered by user  |  |  |                 |  |                 |               |      |
|   |  |  |                 | Reagent blank  | mAbs/10         | Last          |      |
|   |  |  |                 | Blank  | Automatic entry | mAbs/10       | Last |
|   |  |  |                 | Calibration Curve  |                 | Conc.         |      |
|   |  |  |                 | Absorbance   | mAbs/10         | Recalculation |      |

| Chemistry Parameters              |  |   | Sysmex BX-4000 Chemistry Analyzer<br>Analytical Parameters |  |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|-----------------------------------|--|---|--|--|---|-----|-------------------|-----|-----|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-----------|---|---|
| Method                            | <input type="text" value="*"/>         | Name UREA                                     | Reagent Name   | Reagent (µL)   | Water (µL)  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Print Name                        | Urea                                   | R1  | UREA   | 160  |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Sample                            | Urine                                  | R2 <input checked="" type="checkbox"/> Enable | UREA   | 40   |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Unit                              | mg/dL                                  |   |  |  |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Assay Type                        | Rate                                   | Diluent <input type="checkbox"/> Enable       |  |  |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Measuring points                  | Start                                  | End   | Decimal Points   | <input type="text" value="0"/>   |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                   | 1 <input type="text" value="40"/>      | - <input type="text" value="49"/>             |  |  |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Enable   | 2 <input type="text"/>                 | - <input type="text"/>                        |  |  |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Wave Length                       | Prim. <input type="text" value="340"/> | Sec <input type="checkbox"/> Disable          | <input type="text" value="415"/>                           | <table border="1"> <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                            | Sampling                               | Sample (µL)                                   | Diluent (µL)   | Technical Range  |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Dilution | <input type="text" value="2.0"/>       | <input type="text" value="2.0"/>              | <input type="text" value="200"/>                           | (Conc) <input type="text" value="200"/>  | - <input type="text" value="30000"/>  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Rerun (High/Prozone)              |  |   |  | (mAbs/10) <input type="text"/>   | - <input type="text"/>  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Dilution | <input type="text" value="2.0"/>       | <input type="text" value="2.0"/>              | <input type="text" value="200"/>                           | SPT Wash <input type="checkbox"/> Enable   | <input type="text"/>  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Rerun (Low)                       |  |   |  | Reagent Name   |   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Dilution | <input type="text" value="2.0"/>       | <input type="text" value="2.0"/>              | <input type="text" value="200"/>                           | Stirring Speed   | R1 <input type="text" value="Middle"/> R2 <input type="text" value="Middle"/> |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |

\*Entered by user

| Chemistry Parameters                   |   |  | Sysmex BX-4000 Chemistry Analyzer<br>Analytical Parameters |   |  |
|--|---|--|--|---|--|
| Method No.                             | <input type="text" value="*"/>  | Name UREA  | Sample Urine   |   |  |
| Limit Checks                           |   |  |  |   |  |
| ✓ Duplicate Limit                      | <input type="text" value="100"/>  | mAbs/10  | Blank measurement  |   |  |
| ✓ Sensitivity Limit                    | <input type="text" value="1000"/>                                       | mAbs/10  | Blank measurement:   |   |  |
| ✓ Linearity Limit                      | <input type="text" value="10"/>   | % <input type="text" value="370"/>                               | (mAbs/10)/min  | <input type="text"/>                      |  |
| <input type="checkbox"/> Prozone Limit | <input type="text"/>  | % <input type="text" value="Upper"/>                             | Disable reagent blank and S1 blank                         |   |  |
|  | SL1-S <input type="text"/>  | - SL1-F <input type="text"/>                                     |  |   |  |
|  | SL2-S <input type="text"/>  | - SL2-F <input type="text"/>                                     | Measurement of Reagent Blank during Run:                   |   |  |
| Sensitivity                            | <input type="text"/>  | mAbs/10  | None   |   |  |
| ✓ Absorbance Limit                     | <input type="checkbox"/> Reaction <input type="text" value="Decrease"/> | <input type="checkbox"/> Limit <input type="text" value="9000"/> | mAbs/10  | Reagent blank measurement at calibration: |  |
|  |   |  |  | <input type="text"/>                      |  |
|  |   |  | The number of measurement:                                 | <input type="text"/>                      |  |
|  |   |  | Duplicate  |   |  |
|  |   |  | Reagent blank limit checks:                                |   |  |
| ✓ Duplicate Limit                      | <input type="text" value="10"/>   | mAbs/10  | <input type="checkbox"/> Duplicate Limit                   |   |  |
| Instrument Factor                      |   |  |  |   |  |
|  | a <input type="text" value="1.00"/>                                     | b <input type="text" value="0.00"/>                              |  |   |  |

| <u>Registration Calibration</u>                     |   | Sysmex BX-4000 Chemistry Analyzer<br>Analytical Parameters |   |                           |
|---|---|--|---|---------------------------|
| Method <input type="text" value="*"/>               | Name <input type="text" value="UREA"/>        | R Lot No.  | R1 <input type="text" value="*"/>             | Last <input type="text"/> |
| Sample <input type="text" value="Urine"/>           |   | R2 <input type="text" value="*"/>                          |   |                           |
| Sampling <input type="text" value="Duplicate"/>     |   |  |   |                           |
| Check Interval <input type="text" value="42"/> days |   |  |   |                           |
| Auto <input type="text" value="Change Lot"/>        | <input type="text" value="Full Calibration"/> |  |   |                           |
| Auto Interval <input type="text"/> hour             | <input type="text"/> s                        |  |   |                           |
| Type <input type="text" value="Linear"/>            | Lot <input type="text" value="New"/>          |  |   |                           |
| Material Name <input type="text" value="TruCal U"/> |   |  |   |                           |
| Conc.   | WORK  | MASTER   | Lot No. (S) <input type="checkbox"/> All      |                           |
| S1 <input type="text" value="0.0"/>                 | <input type="checkbox"/> Automatic entry      | <input type="checkbox"/> Automatic entry                   |   |                           |
| S2 <input type="text" value="*"/>                   | <input type="checkbox"/> Automatic entry      | <input type="checkbox"/> Automatic entry                   |   |                           |
| S3 <input type="text" value="*"/>                   |   |  |   |                           |
| S4 <input type="text" value="*"/>                   |   |  |   |                           |
| S5 <input type="text" value="*"/>                   |   |  |   |                           |
| S6 <input type="text" value="*"/>                   |   |  |   |                           |
| S7 <input type="text" value="*"/>                   |   |  |   |                           |
| K <input type="checkbox"/> Automatic entry          | <input type="checkbox"/> S1 Blank             |  | <input type="checkbox"/> Reagent Blank for S1 |                           |
| *Entered by user                                    |   |  |   |                           |


  
 The calibration curve is lot dependent

|  |                              |                                      |
|--|------------------------------|--------------------------------------|
| Reagent blank <input type="text"/>                 | mAbs/10 <input type="text"/> | Last <input type="text"/>            |
| Blank <input type="text" value="Automatic entry"/> | mAbs/10 <input type="text"/> | Last <input type="text"/>            |
| Type <input type="text"/>                          | Conc. <input type="text"/>   |                                      |
| Absorbance <input type="text"/>                    | mAbs/10 <input type="text"/> | Recalculation <input type="button"/> |