

# Triglycerides FS\*

## Order Information

| Cat. No.         | Kit size      | Instrument         | $\Sigma$                       |
|------------------|---------------|--------------------|--------------------------------|
| 1 5710 99 10 970 | R 4 x 31.7 mL | BX-3010<br>BX-4000 | 800 (4 x 200)<br>616 (4 x 154) |

## Intended Use

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

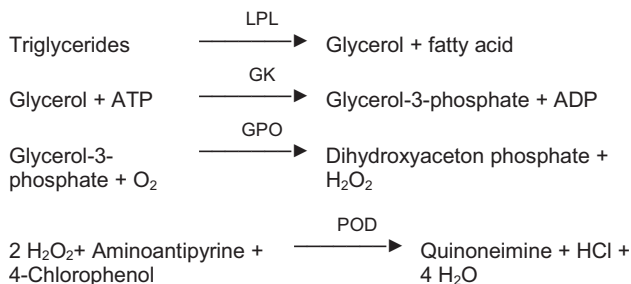
## Summary

Triglycerides are esters of glycerol with three fatty acids. They represent the most abundant naturally occurring lipids. They are transported in plasma bound to apolipoproteins forming very low-density lipoproteins (VLDL) and chylomicrons. Measurement of triglycerides is used in screening of the lipid status to detect atherosclerotic risks and in monitoring of lipid lowering therapy. Studies have shown that elevated triglyceride concentrations combined with increased low-density lipoprotein (LDL) concentrations constitute an especially high risk for coronary heart disease (CHD). High triglyceride levels also occur in various diseases of liver, kidneys and pancreas. [1,2]

## Method

Colorimetric enzymatic test using glycerol-3-phosphate-oxidase (GPO)

Determination of triglycerides after enzymatic splitting with lipoprotein lipase. Quinoneimine is the indicator, generated from 4-aminoantipyrine and 4-chlorophenol by hydrogen peroxide under the catalytic action of peroxidase.



## Reagent

### Components and Concentrations

|                              |        |            |
|------------------------------|--------|------------|
| Good's buffer                | pH 7.2 | 50 mmol/L  |
| 4-Chlorophenol               |        | 4 mmol/L   |
| ATP                          |        | 2 mmol/L   |
| Mg <sup>2+</sup>             |        | 15 mmol/L  |
| Glycerokinase                | (GK)   | ≥ 0.4 kU/L |
| Peroxidase                   | (POD)  | ≥ 2 kU/L   |
| Lipoprotein lipase           | (LPL)  | ≥ 2 kU/L   |
| 4-Aminoantipyrine            |        | 0.5 mmol/L |
| Glycerol-3-phosphate-oxidase | (GPO)  | ≥ 0.5 kU/L |

## Storage and Stability

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

## Warnings and Precautions

1. The reagent contains sodium azide (0.95 g/L) as preservative. Do not swallow! Avoid contact with skin and mucous membranes.
2. The reagent contains animal material. Handle the product as potentially infectious according to universal precautions and good laboratory practice.
3. N-acetylcysteine (NAC), acetaminophen and metamizole medication leads to falsely low results in patient samples.
4. In very rare cases, samples of patients with gammopathy might give falsified results [3].
5. 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.
6. For professional use only.

## Waste Management

Refer to local legal requirements.

## Reagent Preparation

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

## Materials Required

General laboratory equipment

## Specimen

Human serum or heparin plasma

Stability [4]:

|                 |    |           |
|-----------------|----|-----------|
| 2 days          | at | 20 – 25°C |
| 7 days          | at | 4 – 8°C   |
| At least 1 year | at | -20°C     |

Only freeze once. 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 L 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 L Level 1 | 5 9020 99 10 065 | 3 x 3 mL  |
| TruLab L Level 2 | 5 9030 99 10 065 | 3 x 3 mL  |

## Performance Characteristics

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

|  |                        |
|--|------------------------|
| Measuring range up to 1000 mg/dL (11.3 mmol/L).<br>In case of higher concentrations re-measure samples after manual dilution with NaCl solution (9 g/L) or use rerun function. |                        |
| Limit of detection**   | 2 mg/dL (0.023 mmol/L) |
| Onboard stability  | 12 weeks               |
| Calibration stability  | 9 week                 |

| Interfering substance    | Interferences $\leq 10\%$ up to | Analyte concentration     |
|--------------------------|---------------------------------|---------------------------|
| Ascorbic acid            | 6 mg/dL                         | 84.8 mg/dL (0.955 mmol/L) |
| Bilirubin (conjugated)   | 13 mg/dL                        | 237 mg/dL (2.66 mmol/L)   |
| Bilirubin (unconjugated) | 35 mg/dL                        | 227 mg/dL (2.56 mmol/L)   |
| Hemoglobin               | 575 mg/dL                       | 223 mg/dL (2.52 mmol/L)   |

For further information on interfering substances refer to Young DS [5.6].

| Precision BX-3010  |          |          |          |
|--------------------|----------|----------|----------|
| Within run (n=20)  | Sample 1 | Sample 2 | Sample 3 |
| Mean [mg/dL]       | 81.7     | 165      | 265      |
| Mean [mmol/L]      | 0.920    | 1.85     | 2.98     |
| CV [%]             | 1.43     | 1.47     | 1.41     |
| Between day (n=20) | Sample 1 | Sample 2 | Sample 3 |
| Mean [mg/dL]       | 83.6     | 164      | 263      |
| Mean [mmol/L]      | 0.941    | 1.85     | 2.96     |
| CV [%]             | 2.29     | 1.48     | 1.18     |

| Method comparison (n=106)  |   |
|----------------------------|---|
| Test x                     | DiaSys Triglycerides FS (BioMajesty® JCA-BM6010C) |
| Test y                     | DiaSys Triglycerides FS (BX-3010)                 |
| Slope                      | 1.03  |
| Intercept                  | -5.87 mg/dL (0.066 mmol/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

Triglycerides [mg/dL] x 0.01126 = Triglycerides [mmol/L]

### Reference Range [2]

|                 |                       |                  |
|-----------------|-----------------------|------------------|
| Desirable       | < 200 mg/dL (fasting) | < 2.3 mmol/L     |
| Borderline high | 200 – 400 mg/dL       | 2.3 – 4.5 mmol/L |
| Elevated        | > 400 mg/dL           | > 4.5 mmol/L     |

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

### Clinical Interpretation

Epidemiological studies have observed that a combination of plasma triglycerides > 180 mg/dL (> 2.0 mmol/L) and HDL-cholesterol < 40 mg/dL (1.0 mmol/L) predict a high risk of CHD. Borderline levels (> 200 mg/dL) should always be regarded in association with other risk factors for CHD [7].

## Literature

1. Rifai N, Bachorik PS, Albers JJ. Lipids, lipoproteins and apolipoproteins. In: Burtis CA, Ashwood ER, editors. Tietz Textbook of Clinical Chemistry. 3rd ed. Philadelphia: W.B Saunders Company; 1999, p. 809-61.
2. Cole TG, Klotzsch SG, McNamara J. Measurement of triglyceride concentration. In: Rifai N, Warnick GR, Dominiczak MH, eds. Handbook of lipoprotein testing. Washington: AACC Press, 2000; 2nd edition, p. 207-19.
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. 46-7.
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. Young DS. Effects on Clinical Laboratory Tests - Drugs Disease, Herbs & Natural Products, <https://clinf.wiley.com/aaccweb/aacc/>, accessed in July 2021. Published by AACC Press and John Wiley and Sons, Inc.
7. Recommendation of the Second Joint Task Force of European and other Societies on Coronary Prevention. Prevention of coronary heart disease in clinical practice. Eur Heart J 1998;19: 1434-503.



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\* Fluid Stable

| Chemistry Parameters 1   |                      |                     |              | Sysmex BX-3010 Chemistry Analyzer Analytical Parameters |                   |            |         |
|--------------------------|----------------------|---------------------|--------------|---|-------------------|------------|---------|
| Method No.               | *                    | Method Name         | TRIG         | Reagent Name  | Reagent (µL)      | Water (µL) |         |
| Print Name               | Triglycerides        | MethodColor         |              | R1  | TRIG              | 135        |         |
| Sample Type              | Serum                |                     |              | R2  | Disable           |            |         |
| Unit                     | mg/dL                |                     |              | Diluent   | Disable           |            |         |
| Assay Type               | End                  |                     |              | Sample Ppt. Wash  | Disable           |            |         |
| Measuring points         |                      | Start               | End          | Stirring Speed R1                                       | Middle            | R2         |         |
|                          | 1                    | 45                  | 46           |   |                   |            |         |
|                          | 2                    | Disable             |              |   |                   |            |         |
| Wave Length              | Prim.                | 510                 | Sec.         | 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)            | 2          | 1000    |
| <input type="checkbox"/> | Low 0.0 < 1.5        | Normal 1.5 < 0.0    | High 0.0     |   | (mAbs/10)         | *          | *       |
|                          | Rerun (High/Prozone) |                     |              | Previous Result Comparison (%)                          | *                 | *          | %       |
| <input type="checkbox"/> | Diluent 0.0 < 1.5    | 0.0                 |              | Abnormal Range  | (Conc)            | *          | *       |
|                          | Rerun (Low)          |                     |              | Panic Range   | (Conc)            | *          | *       |
| <input type="checkbox"/> | Diluent 0.0 < 1.5    | 0.0                 |              | Decimal Point   | 0                 | Profile SI | Disable |

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| Chemistry Parameters 2                                |                   |               |   | Sysmex BX-3010 Chemistry Analyzer Analytical Parameters |       |         |
|---|-------------------|---------------|---|---|-------|---------|
| Method No.  | *                 | Method Name   | TRIG                                      | Sample  | Serum |         |
| Limit Checks  | Blank measurement |               |   |   |       |         |
| <input checked="" type="checkbox"/> Duplicate Limit   | 90                | mAbs/10       | Blank measurement:                        |   |       |         |
| <input checked="" type="checkbox"/> Sensitivity Limit | 1200              | mAbs/10       | Disable reagent blank and C1 blank        |   |       |         |
| <input checked="" type="checkbox"/> Linearity Limit   |                   | %             | Measurement of Reagent Blank during Run:  |   |       |         |
|   |                   | (mAbs/10)/min | None                                      |   |       |         |
| <input type="checkbox"/> Prozone Limit                | Higher            | %             | Reagent blank measurement at calibration: |   |       |         |
|   |                   |               | Reagent blank (No sample)                 |   |       |         |
|   | SL1-S             |               | SL1-F                                     | The number of measurement:                              |       |         |
|   |                   |               |   | Duplicate   |       |         |
|   | SL2-S             |               | SL2-F                                     | Reagent blank limit checks:                             |       |         |
|   |                   |               |   | <input checked="" type="checkbox"/> Duplicate Limit     | 60    | mAbs/10 |
| Sensitivity   |                   | mAbs/10       | Instrument Factor                         |   |       |         |
| <input checked="" type="checkbox"/> Absorbance Limit  | Abs. in reaction  | Increase      | a   | 1.00  | b     | 0.00    |
|   | Limit             | 25000         |   |   |       |         |

**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)  Last   
 (R2)



The calibration curve is lot dependent

Reagent blank  mAbs/10 Last

Blank  mAbs/10 Last

Calibration Curve  Conc.

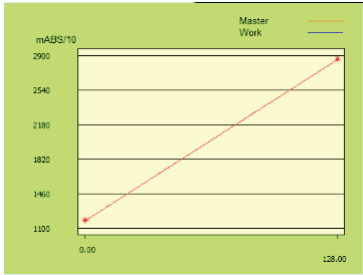
Absorbance  mAbs/10

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| Chemistry Parameters              |  | Sysmex BX-4000 Chemistry Analyzer Analytical Parameters   |  |                                     |                                   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|-----------------------------------|--|---|--|-------------------------------------|-----------------------------------|-----|-------------------|-----|-----|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-----------|---|---|
| Method                            | * <input type="text" value=""/>            | Name  | <input type="text" value="TRIG"/>          |                                     |                                   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Print Name                        | <input type="text" value="Triglycerides"/> | R1  | <input type="text" value="TRIG"/>          | <input type="text" value="180"/>    | <input type="text" value=""/>     |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Sample                            | <input type="text" value="Serum"/>         | R2  | <input checked="" type="checkbox"/> Enable | <input type="text" value=""/>       | <input type="text" value=""/>     |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Unit                              | <input type="text" value="mg/dL"/>         |   |  |                                     |                                   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Assay Type                        | <input type="text" value="End"/>           | Diluent   | <input type="checkbox"/> Enable            | <input type="text" value=""/>       | <input type="text" value=""/>     |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Measuring points                  |  | Start   | End  | Decimal Points                      | <input type="text" value="0"/>    |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                   |  | 1   | <input type="text" value="67"/>            | -                                   | <input type="text" value="68"/>   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Enable   |  | 2   | <input type="text" value=""/>              | -                                   | <input type="text" value=""/>     |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Wave Length                       |  | Normal Range  |  |                                     |                                   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Prim.                             | <input type="text" value="510"/>           | 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="2.0"/>           | Sample (μL)   | <input type="text" value=""/>              | Diluent (μL)                        | <input type="text" value=""/>     |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                   |  | Technical Range   |  | (Conc)                              | <input type="text" value="2"/>    |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Rerun (High/Prozone)              | <input type="text" value=""/>              |   |  | (mAbs/10)                           | <input type="text" value="1000"/> |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Dilution | <input type="text" value="2.0"/>           |   |  |                                     |                                   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| Rerun (Low)                       | <input type="text" value=""/>              |   |  |                                     |                                   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
| <input type="checkbox"/> Dilution | <input type="text" value="2.0"/>           |   |  |                                     |                                   |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                   |  | SPT Wash  | <input type="checkbox"/> Enable            | Reagent Name                        | <input type="text" value=""/>     |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |
|                                   |  | Stirring Speed  | R1   | <input type="text" value="Middle"/> | R2 <input type="text" value=""/>  |     |                   |     |     |   |         |   |   |   |         |   |   |   |         |   |   |   |           |   |   |

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| Chemistry Parameters                                  |                                       | Sysmex BX-4000 Chemistry Analyzer Analytical Parameters                                     |                                   |                               |                                    |
|---|---------------------------------------|---|-----------------------------------|-------------------------------|------------------------------------|
| Method No.  | * <input type="text" value=""/>       | Name  | <input type="text" value="TRIG"/> | Sample                        | <input type="text" value="Serum"/> |
| Limit Checks  |                                       | Blank measurement   |                                   |                               |                                    |
| <input checked="" type="checkbox"/> Duplicate Limit   | <input type="text" value="90"/>       | Blank measurement:  |                                   |                               |                                    |
|   | mAbs/10                               | <input type="text" value="Disable reagent blank and S1 blank"/>                             |                                   |                               |                                    |
| <input checked="" type="checkbox"/> Sensitivity Limit | <input type="text" value="1200"/>     | Measurement of Reagent Blank during Run:  |                                   |                               |                                    |
|   | mAbs/10                               | <input type="text" value="None"/>   |                                   |                               |                                    |
| <input checked="" type="checkbox"/> Linearity Limit   | <input type="text" value=""/>         | Reagent blank measurement at calibration:   |                                   |                               |                                    |
|   | % <input type="text" value=""/>       | <input type="text" value="Reagent blank (No sample)"/>                                      |                                   |                               |                                    |
| <input type="checkbox"/> Prozone Limit                | <input type="text" value=""/>         | The number of measurement:  |                                   |                               |                                    |
|   | % <input type="text" value="Upper"/>  | <input type="text" value="Duplicate"/>  |                                   |                               |                                    |
| 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=""/>         | Reagent blank limit checks:   |                                   |                               |                                    |
|   | mAbs/10                               | <input checked="" type="checkbox"/> Duplicate Limit <input type="text" value="60"/> mAbs/10 |                                   |                               |                                    |
| <input checked="" type="checkbox"/> Absorbance Limit  |                                       | Instrument Factor   |                                   |                               |                                    |
| Reaction  | <input type="text" value="Increase"/> | a   | <input type="text" value="1.00"/> | b                             | <input type="text" value="0.00"/>  |
| Limit   | <input type="text" value="25000"/>    | mAbs/10   |                                   |                               |                                    |

| <u>Registration Calibration</u>   |  |  |  | <b>System BX-4000 Chemistry Analyzer<br/>Analytical Parameters</b> |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
|---|--|--|--|--|--|--|-------|------|--------|--|----|--|--------------------------------|--------------------------------|--|----|--|--------------------------------|--------------------------------|--|----|--|--|--|--|----|--|--|--|--|----|--|--|--|--|----|--|--|--|--|----|--|--|--|--|
| Method <input style="width: 80%;" type="text" value="*"/>   | Name <input style="width: 80%;" type="text" value="TRIG"/> | R Lot No. R1 <input style="width: 80%;" type="text" value="*"/>                    | Last <input style="width: 80%;" type="text"/>  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| Sample <input style="width: 80%;" type="text" value="Serum"/>   |  | R2 <input style="width: 80%;" type="text" value="*"/>                              |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| Sampling <input style="width: 80%;" type="text" value="Duplicate"/>   |  |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| Check Interval <input style="width: 40%;" type="text" value="63"/> days   |  | The calibration curve is lot dependent   |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| Auto <input style="width: 40%;" type="text" value="Change Lot"/> <input style="width: 40%;" type="text" value="Full Calibration"/>  |  | Reagent blank <input style="width: 80%;" type="text"/>                             | mAbs/10  | Last <input style="width: 80%;" type="text"/>                      |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| Auto Interval <input style="width: 40%;" type="text"/> hours  |  | Blank <input style="width: 80%;" type="text" value="Automatic entry"/>             | mAbs/10  | Last <input style="width: 80%;" type="text"/>                      |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| Type <input style="width: 40%;" type="text" value="Linear"/> Lot <input style="width: 40%;" type="text" value="New"/>   |  | Type <input style="width: 80%;" type="text"/>                                      | Conc. <input style="width: 80%;" type="text"/> |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| Material Name <input style="width: 80%;" type="text" value="TruCal U"/>   |  | Absorbance <input style="width: 80%;" type="text"/>                                | mAbs/10  | <input type="button" value="Recalculation"/>                       |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 15%;">Conc.</th> <th style="width: 20%;">WORK</th> <th style="width: 20%;">MASTER</th> <th style="width: 40%;">Lot No. (S) <input type="checkbox"/> All</th> </tr> </thead> <tbody> <tr> <td>S1</td> <td><input style="width: 80%;" type="text" value="0"/></td> <td style="text-align: center;"><small>Automatic entry</small></td> <td style="text-align: center;"><small>Automatic entry</small></td> <td></td> </tr> <tr> <td>S2</td> <td><input style="width: 80%;" type="text" value="*"/></td> <td style="text-align: center;"><small>Automatic entry</small></td> <td style="text-align: center;"><small>Automatic entry</small></td> <td></td> </tr> <tr> <td>S3</td> <td><input style="width: 80%;" type="text" value="*"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S4</td> <td><input style="width: 80%;" type="text" value="*"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S5</td> <td><input style="width: 80%;" type="text" value="*"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S6</td> <td><input style="width: 80%;" type="text" value="*"/></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S7</td> <td><input style="width: 80%;" type="text" value="*"/></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |  |  |  |  |  |  | Conc. | WORK | MASTER | Lot No. (S) <input type="checkbox"/> All | S1 | <input style="width: 80%;" type="text" value="0"/> | <small>Automatic entry</small> | <small>Automatic entry</small> |  | S2 | <input style="width: 80%;" type="text" value="*"/> | <small>Automatic entry</small> | <small>Automatic entry</small> |  | S3 | <input style="width: 80%;" type="text" value="*"/> |  |  |  | S4 | <input style="width: 80%;" type="text" value="*"/> |  |  |  | S5 | <input style="width: 80%;" type="text" value="*"/> |  |  |  | S6 | <input style="width: 80%;" type="text" value="*"/> |  |  |  | S7 | <input style="width: 80%;" type="text" value="*"/> |  |  |  |
|   | Conc.  | WORK   | MASTER   | Lot No. (S) <input type="checkbox"/> All                           |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| S1  | <input style="width: 80%;" type="text" value="0"/>         | <small>Automatic entry</small>   | <small>Automatic entry</small>                 |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| S2  | <input style="width: 80%;" type="text" value="*"/>         | <small>Automatic entry</small>   | <small>Automatic entry</small>                 |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| S3  | <input style="width: 80%;" type="text" value="*"/>         |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| S4  | <input style="width: 80%;" type="text" value="*"/>         |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| S5  | <input style="width: 80%;" type="text" value="*"/>         |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| S6  | <input style="width: 80%;" type="text" value="*"/>         |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| S7  | <input style="width: 80%;" type="text" value="*"/>         |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| K <input style="width: 80%;" type="text" value="Automatic entry"/> <input type="checkbox"/> S1 Blank <span style="margin-left: 100px;"><input type="checkbox"/> Reagent Blank for S1</span>   |  |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| <b>*Entered by user</b>   |  |  |  |  |  |  |       |      |        |  |    |  |                                |                                |  |    |  |                                |                                |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |