

| Short Name / Analyte                         | Method*                       | Reagent Cat. No. | Traceability                                       | Value                 | Unit                      |
|----------------------------------------------|-------------------------------|------------------|----------------------------------------------------|-----------------------|---------------------------|
| <b>ALB</b><br>Albumin                        | Bromcresol green              | 1 0220           | ERM-DA 470                                         | 3.52<br>35.2          | g/dL<br>g/L               |
| <b>AP</b><br>Alkaline Phosphatase            | IFCC 37°C                     | 1 0441           | IFCC recommended formulation 37°C                  | 289<br>4.81           | U/L<br>μkat/L             |
| <b>ALT/GPT</b><br>Alanine aminotransferase   | IFCC                          | 1 2701 +         | Original IFCC formulation                          | 93.3                  | U/L                       |
|                                              | with pyridoxal phosphate 37°C | 2 5010           | 37°C                                               | 1.56                  | μkat/L                    |
|                                              | w/o pyridoxal phosphate 37°C  | 1 2701           | Modified IFCC formulation<br>ε NADH, 37°C          | 95.6<br>1.59          | U/L<br>μkat/L             |
| <b>AST/GOT</b><br>Aspartate aminotransferase | IFCC                          | 1 2601 +         | Original IFCC formulation                          | 104                   | U/L                       |
|                                              | with pyridoxal phosphate 37°C | 2 5010           | 37°C                                               | 1.73                  | μkat/L                    |
|                                              | w/o pyridoxal phosphate 37°C  | 1 2601           | Modified IFCC formulation<br>ε NADH, 37°C          | 105<br>1.75           | U/L<br>μkat/L             |
| <b>AMY</b><br>Amylase                        | EPS G-7                       | 1 0501           | Original IFCC formulation 37°C                     | 180<br>3.00           | U/L<br>μkat/L             |
|                                              |                               |                  | Modified IFCC formulation<br>ε p-Nitrophenol, 37°C | 165<br>2.76           | U/L<br>μkat/L             |
| <b>DBIL</b><br>Direct Bilirubin              | DCA                           | 1 0821           | Jendrassik-Grof                                    | 2.37<br>40.5<br>23.7  | mg/dL<br>μmol/L<br>mg/L   |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>TBIL</b><br>Total Bilirubin               | DCA                           | 1 0811           | SRM 916a                                           | 4.03<br>68.9<br>40.3  | mg/dL<br>μmol/L<br>mg/L   |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>BUN</b><br>Urea N                         | Urease UV                     | 1 3101           | SRM 909b Level 1                                   | 49.5<br>17.7<br>0.495 | mg/dL<br>mmol/L<br>g/L    |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>CAAS</b><br>Calcium                       | Arsenazo                      | 1 1130           | AAS                                                | 2.52<br>5.05<br>10.1  | mmol/L<br>mval/L<br>mg/dL |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>CA</b><br>Calcium                         | Phosphonazo                   | 1 1181           | AAS                                                | 2.72<br>5.45<br>10.9  | mmol/L<br>mval/L<br>mg/dL |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>CHOL</b><br>Cholesterol                   | CHOD-PAP                      | 1 1300           | GC-IDMS                                            | 156<br>4.04<br>1.56   | mg/dL<br>mmol/L<br>g/L    |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>CHE</b><br>Cholinesterase                 | Butyrylthiocholin             | 1 1401           | DGKC recommended formulation 37°C                  | 4459<br>74.3          | U/L<br>μkat/L             |
| <b>CK</b><br>Creatine kinase                 | DGKC opt.                     | 1 1601           | Original IFCC formulation 37°C                     | 378                   | U/L                       |
|                                              | IFCC 37°C                     |                  |                                                    | 6.29                  | μkat/L                    |
| <b>CREAP</b><br>Creatinine                   | Enzymatic PAP                 | 1 1759           | GC-IDMS                                            | 3.87<br>342<br>38.7   | mg/dL<br>μmol/L<br>mg/L   |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>CREA</b><br>Creatinine                    | Jaffé, w/o compensation       | 1 1711           | GC-IDMS                                            | 3.86<br>341<br>38.6   | mg/dL<br>μmol/L<br>mg/L   |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
|                                              | Jaffé, with compensation      | 1 1711           | GC-IDMS                                            | 4.36<br>386<br>43.6   | mg/dL<br>μmol/L<br>mg/L   |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
| <b>FE</b><br>Iron                            | Ferene                        | 1 1911           | SRM 682                                            | 186<br>33.3<br>1.86   | μg/dL<br>μmol/L<br>mg/L   |
|                                              |                               |                  |                                                    |                       |                           |
|                                              |                               |                  |                                                    |                       |                           |
|                                              | Ferene respons®920            | 1 1911           | SRM 682                                            | 186<br>33.3           | μg/dL<br>μmol/L           |
|                                              |                               |                  |                                                    | 1.86                  | mg/L                      |

# Proline TruCal U

**LOT** 37606

Cat. No. 5 9100 99 88 064 (6 x 3 mL)

**2026-06-30**Updated sheets: [www.proline.co.id/document/](http://www.proline.co.id/document/)

Value sheet version: 1

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|-------------------------------------------|---------------------------|------------------|------------------------------|-------|--------|
| <b>GGT</b><br>γ-Glutamyltransferase       | Szasz liquid stand. Szasz | 1 2801           | Original formulation         | 81.5  | U/L    |
|                                           |                           |                  | Persijn/v.d.Slik 1976, 37°C  | 1.36  | μkat/L |
|                                           | Szasz liquid stand. IFCC  | 1 2801           | Original IFCC formulation    | 92.1  | U/L    |
| <b>GLDH</b><br>Glutamate dehydrogenase    |                           |                  | 37°C                         | 1.54  | μkat/L |
|                                           | DGKC 1970 37°C            | 1 2411           | DGKC recommended formulation | 27.1  | U/L    |
|                                           |                           |                  | 37°C                         | 0.451 | μkat/L |
| <b>GLUC/GLUHK</b><br>Glucose              | GOD-PAP (10 min.)         | 1 2500           | ID-MS                        | 191   | mg/dL  |
|                                           | HK/G6P-DH                 | 1 2511           |                              | 10.6  | mmol/L |
|                                           |                           |                  |                              | 1.91  | g/L    |
| <b>HBDH</b><br>α-Hydroxybutyrate dehydro. | DGKC 37°C                 | 1 3201           | DGKC recommended formulation | 280   | U/L    |
|                                           |                           |                  | 37°C                         | 4.67  | μkat/L |
|                                           | LDH UV                    | 1 4001           | Primary reference material   | 29.1  | mg/dL  |
| <b>LACT</b><br>Lactate                    |                           |                  |                              | 3.23  | mmol/L |
|                                           |                           |                  |                              | 291   | mg/L   |
| <b>LDH21</b><br>Lactate dehydrogenase     | IFCC, modified            | 1 4251           | Original IFCC formulation    | 268   | U/L    |
|                                           |                           |                  | 37°C                         | 4.46  | μkat/L |
|                                           | Colorimetric              | 1 4321           | Molar absorbance coefficient | 114   | U/L    |
| <b>LPS</b><br>Lipase                      |                           |                  |                              | 1.91  | μkat/L |
|                                           | Xylidyl blue              | 1 4610           | AAS                          | 1.14  | mmol/L |
|                                           |                           |                  |                              | 2.29  | mval/L |
| <b>MG</b><br>Magnesium                    |                           |                  |                              | 2.78  | mg/dL  |
|                                           | Molybdate UV              | 1 5211           | Internal Standard            | 5.59  | mg/dL  |
|                                           |                           |                  |                              | 1.80  | mmol/L |
| <b>PO4</b><br>Phosphorus                  |                           |                  |                              | 55.9  | mg/L   |
|                                           | Biuret, with sample blank | 1 2311           | Modified Biuret method       | 5.22  | g/dL   |
|                                           |                           |                  |                              | 52.2  | g/L    |
| <b>TP</b><br>Total Protein                | Biuret, w/o sample blank  | 1 2311           | Modified Biuret method       | 5.68  | g/dL   |
|                                           |                           |                  |                              | 56.8  | g/L    |
|                                           |                           |                  |                              |       |        |
| <b>TRIG</b><br>Triglycerides              | GPO-PAP                   | 1 5710           | GC-IDMS                      | 132   | mg/dL  |
|                                           |                           |                  |                              | 1.48  | mmol/L |
|                                           |                           |                  |                              | 1.32  | g/L    |
| <b>UIBC</b><br>Unsat. Iron Binding Cap.   | Ferene / Ferrozine        | 1 1921           | Internal Standard            | 208   | μg/dL  |
|                                           |                           |                  |                              | 37.3  | μmol/L |
|                                           |                           |                  |                              | 2.08  | mg/L   |
| <b>UREA</b><br>Urea                       | Urease UV                 | 1 3101           | SRM 909b Level 1             | 106   | mg/dL  |
|                                           |                           |                  |                              | 17.7  | mmol/L |
|                                           |                           |                  |                              | 1.06  | g/L    |
| <b>UA</b><br>Uric Acid                    | Uricase - TOOS            | 1 3001           | GC ID-MS                     | 5.10  | mg/dL  |
|                                           |                           |                  |                              | 303   | μmol/L |
|                                           |                           |                  |                              | 51.0  | mg/L   |
| <b>UATBH</b><br>Uric Acid                 | Uricase - TBHBA           | 1 3021           | GC ID-MS                     | 5.27  | mg/dL  |
|                                           |                           |                  |                              | 314   | μmol/L |
|                                           |                           |                  |                              | 52.7  | mg/L   |

\*This value sheet is short version. For other methods, please ask your distributors or email to [technical.support@proline.co.id](mailto:technical.support@proline.co.id)**DiaSys Diagnostic Systems GmbH**Alte Strasse 9 65558 Holzheim  
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