

日立 7080 全自动生化分析仪参数表

| TEST/NAME               | Ca(ARS)      | Ca(CPC)                                                | Cl            | CO <sub>2</sub> | TIBC-Fe                    | TIBC-UIBC         | Mg              | PHOS                                                | PHOS-S          |
|-------------------------|--------------|--------------------------------------------------------|---------------|-----------------|----------------------------|-------------------|-----------------|-----------------------------------------------------|-----------------|
| ASSAY CODE              | 1 Point      | 2 Point END                                            | 1 Point       | 2 Point Rate    | 2 Point END                | 2 Point END       | 1 Point         | 1 Point                                             | 2 Point END     |
| REACTION TIME           | 10           | 10                                                     | 10            | 10              | 10                         | 10                | 10              | 10                                                  | 10              |
| WAVE(SUB/PRIMARY)       | 700/660      | 660/546                                                | 660/505       | 505/405         | 0/600                      | 600               | 754 / 546       | 405 / 340                                           | 700/340         |
| ASSAY POINT             | 15           | 15/30                                                  | 15            | 6/12            | 11/28                      | 11-28             | 9               | 10                                                  | 15/30           |
| SAMPLE VOL(NOR/DEC/INC) | 2            | 4                                                      | 2             | 2               | 20                         | 20                | 2.4             | 4                                                   | 4.8             |
| REAGENT T1              | 200          | 120                                                    | 200           | 200             | 200                        | 200               | 240             | 200                                                 | 120             |
| REAGENT T2              | 0            | 0                                                      | 0             | 0               | 0                          | 0                 | 0               | 0                                                   | 0               |
| REAGENT T3              | 0            | 120                                                    | 0             | 0               | 40                         | 40                | 0               | 0                                                   | 120             |
| REAGENT T4              | 0            | 0                                                      | 0             | 0               | 0                          | 0                 | 0               | 0                                                   | 0               |
| ABS LIMIT CLASS 1       | 32000        | 32000                                                  | 32000         | 0               | 32000                      | 32000             | 32000           | 32000                                               | 32000           |
| CLASS 2                 | 32000        | 32000                                                  | 32000         | 32000           | 32000                      | 32000             | 32000           | 32000                                               | 32000           |
| INC/DEC                 | Increase     | Increase                                               | Increase      | Decrease        | Increase                   | Increase          | Increase        | Increase                                            | Increase        |
| CALIB TYPE              | LINEAR       | LINEAR                                                 | LINEAR        | LINEAR          | LINEAR                     | LINEAR            | LINEAR          | LINEAR                                              | LINEAR          |
| CALIB POINT             | 2            | 2                                                      | 2             | 2               | 2                          | 2                 | 2               | 2                                                   | 2               |
| SPAN POINT              | 2            | 2                                                      | 2             | 2               | 2                          | 2                 | 2               | 2                                                   | 2               |
| WEIGHT                  | 0            | 0                                                      | 0             | 0               | 0                          | 0                 | 0               | 0                                                   | 0               |
| Data Type               | On Board     | On Board                                               | On Board      | On Board        | On Board                   | On Board          | On Board        | On Board                                            | On Board        |
| UNIT                    | mmol/l       | mmol/L                                                 | mmol/l        | mmol/L          | μmol/l                     | μmol/L            | mmol/L          | mmol/L                                              | mmol/L          |
| TECHNICAL LIMIT         | 0—5          | 0.40-3.75                                              | 80—120        | 10-50           | 5-120                      | 5-80              | 0.10-2.50       | 0—5                                                 | 0.02-5.0        |
| EXPECTED VALUE          | 2.25-2.75    | Serum:<br>2.10-2.60mmol/L<br>Urine:<br>2.5~7.5mmol/24h | 96—108        | 22-29           | Male: 9~32<br>Female: 7~30 | 31μmol/L~51μmol/L | 0.67~1.04       | Serum:<br>0.9~1.62mmol/L<br>24h urine:<br>12~24mmol | 0.9-1.62        |
| STD(1) CONC-POS-VOL     | 0.0 - 999 -2 | 0.00 - 999 - 4                                         | 0.0 - 999 - 2 | 0 - 999 - 2     | 0.00 - 999 - 20            | 0 - 999 - 20      | 0.0 - 999 - 2.4 | 0.00 - 999 - 4                                      | 0.00 - 999 -4.8 |
| STD(2) CONC-POS-VOL     | * - # - 2    | * - # - 4                                              | * - # - 2     | * - # - 2       | * - # - 20                 | * - # -20         | * - # -2.4      | * - # - 4                                           | * - # -4.8      |
| K FACTOR                |              |                                                        |               |                 |                            |                   |                 |                                                     |                 |

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| TEST/NAME               | TC               | TG                                         | APO A1         | APO B          | CRP            | HS-CRP         | ASO                                    | β2-MG                                       | ADA         |
|-------------------------|------------------|--------------------------------------------|----------------|----------------|----------------|----------------|----------------------------------------|---------------------------------------------|-------------|
| ASSAY CODE              | 2 Point END      | 2 Point END                                | 2 Point END    | 2 Point END    | 2 Point END    | 2 Point END    | 2 Point END                            | 2 Point END                                 | Rate- A     |
| REACTION TIME           | 10               | 10                                         | 10             | 10             | 10             | 10             | 10                                     | 10                                          | 10          |
| WAVE(SUB/PRIMARY)       | 660/505          | 700 / 546                                  | 700/340        | 700/340        | 0/546          | 0/660          | 0/570                                  | 0/600                                       | 700/546     |
| ASSAY POINT             | 15/30            | 11-28                                      | 11-28          | 11-28          | 18/28          | 18/28          | 18/28                                  | 18-28                                       | 23/29       |
| SAMPLE VOL(NOR/DEC/INC) | 2.5              | 2.4                                        | 2              | 2              | 2              | 2              | 2.5                                    | Serum、血浆:<br>3<br>Urine: 15                 | 5           |
| REAGENT T1              | 200              | 192                                        | 248            | 258            | 270            | 150            | 200                                    | 240                                         | 180         |
| REAGENT T2              | 0                | 0                                          | 0              | 0              | 0              | 0              | 0                                      | 0                                           | 0           |
| REAGENT T3              | 50               | 48                                         | 70             | 60             | 80             | 50             | 50                                     | 60                                          | 90          |
| REAGENT T4              | 0                | 0                                          | 0              | 0              | 0              | 0              | 0                                      | 0                                           | 0           |
| ABS LIMIT CLASS 1       | 32000            | 32000                                      | 32000          | 32000          | 32000          | 32000          | 32000                                  | 32000                                       | 32000       |
| CLASS 2                 | 32000            | 32000                                      | 32000          | 32000          | 32000          | 32000          | 32000                                  | 32000                                       | 32000       |
| INC/DEC                 | Increase         | Increase                                   | Increase       | Increase       | Increase       | Increase       | Increase                               | Increase                                    | Increase    |
| CALIB TYPE              | LINEAR           | LINEAR                                     | Logit-Log 5P   | Logit-Log 5P   | Logit-log5p    | Logit-log5p    | Logit-log5p                            | Logit-Log 5P                                | K FACTOR    |
| CALIB POINT             | 2                | 2                                          | 5              | 5              | 5              | 5              | 5                                      | 5                                           | 2           |
| SPAN POINT              | 2                | 2                                          | 5              | 5              | 5              | 5              | 5                                      | 5                                           | 2           |
| WEIGHT                  | 0                | 0                                          | 0              | 0              | 0              | 0              | 0                                      | 0                                           | 0           |
| Data Type               | On Board         | On Board                                   | On Board       | On Board       | On Board       | On Board       | On Board                               | On Board                                    | On Board    |
| UNIT                    | mmol/L           | mmol/L                                     | g/L            | g/L            | mg/L           | mg/l           | IU/mL                                  | mg/L                                        | U/L         |
| TECHNICAL LIMIT         | 0.10-20          | 0.30-9.04                                  | 0.40~2.00      | 0.32-1.60      | 2.0-80         | 0.1-20         | 20-800                                 | 0.30-21.51                                  | 0-200       |
| EXPECTED VALUE          | 0-5.2            | Male:<br>0.45~1.81<br>Female:<br>0.40~1.53 | 1.00~1.60      | 0.60~1.10      | 0-6            | 0-5.0          | 0~200<br>(Children) ;<br>0~160 (Adult) | Serum、<br>Plasma:<br>0.8~2.8<br>Urine: ≤0.3 | 0-25        |
| STD(1) CONC-POS-VOL     | 0.00 - 999 - 2.5 | 0 - 999 - 2.4                              | 0.00 - 999 - 2 | 0.00 - 999 - 2 | 0.00 - 999 - 2 | 0.00 - 999 - 2 | 0.00 - 999 - 2.5                       | 0.00 - 999 - 3                              | 0 - 999 - 5 |
| STD(2) CONC-POS-VOL     | * - # - 2.5      | * - # - 2.4                                | * - # - 2      | * - # - 2      | * - # - 2      | * - # - 2      | * - # - 2.5                            | * - # - 3                                   | * - # - 5   |
| K FACTOR                |                  |                                            |                |                |                |                |                                        |                                             |             |

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| TEST/NAME               | 5-NT        | ICDH         | FER                                                                            | TRF            | CRE-E                                                                                                                               | MALB            | NAG             | TPU                                                    | UA                                                                                    |
|-------------------------|-------------|--------------|--------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|
| ASSAY CODE              | Rate- A     | Rate- A      | 2 Point END                                                                    | 2 Point END    | 2 Point END                                                                                                                         | 2 Point END     | Rate- A         | 2 Point END                                            | 2 Point END                                                                           |
| REACTION TIME           | 10          | 10           | 10                                                                             | 10             | 10                                                                                                                                  | 10              | 10              | 10                                                     | 10                                                                                    |
| WAVE(SUB/PRIMARY)       | 546         | 405 / 340    | 0/570                                                                          | 0/340          | 700/546                                                                                                                             | 700/340         | 700/340         | 0/505                                                  | 700/546                                                                               |
| ASSAY POINT             | 23/29       | 23/30        | 18/28                                                                          | 14/30          | 15/30                                                                                                                               | 11/28           | 21/30           | 15/30                                                  | 15/30                                                                                 |
| SAMPLE VOL(NOR/DEC/INC) | 5           | 12           | 7                                                                              | 2              | 5                                                                                                                                   | 20              | 14              | 9                                                      | 4                                                                                     |
| REAGENT T1              | 180         | 192          | 140                                                                            | 250            | 160                                                                                                                                 | 200             | 210             | 150                                                    | 200                                                                                   |
| REAGENT T2              | 0           | 0            | 0                                                                              | 0              | 0                                                                                                                                   | 0               | 0               | 0                                                      | 0                                                                                     |
| REAGENT T3              | 90          | 48           | 70                                                                             | 50             | 40                                                                                                                                  | 50              | 70              | 60                                                     | 50                                                                                    |
| REAGENT T4              | 0           | 0            | 0                                                                              | 0              | 0                                                                                                                                   | 0               | 0               | 0                                                      | 0                                                                                     |
| ABS LIMIT CLASS 1       | 32000       | 32000        | 32000                                                                          | 32000          | 32000                                                                                                                               | 32000           | 32000           | 32000                                                  | 32000                                                                                 |
| CLASS 2                 | 32000       | 32000        | 32000                                                                          | 32000          | 32000                                                                                                                               | 32000           | 32000           | 32000                                                  | 32000                                                                                 |
| INC/DEC                 | Increase    | Increase     | Increase                                                                       | Increase       | Increase                                                                                                                            | Increase        | Increase        | Increase                                               | Increase                                                                              |
| CALIB TYPE              | LINEAR      | LINEAR       | SPLINE                                                                         | SPLINE         | LINEAR                                                                                                                              | SPLINE          | LINEAR          | SPLINE                                                 | LINEAR                                                                                |
| CALIB POINT             | 2           | 2            | 5                                                                              | 5              | 2                                                                                                                                   | 5               | 2               | 6                                                      | 2                                                                                     |
| SPAN POINT              | 2           | 2            | 5                                                                              | 5              | 2                                                                                                                                   | 5               | 2               | 6                                                      | 2                                                                                     |
| WEIGHT                  | 0           | 0            | 0                                                                              | 0              | 0                                                                                                                                   | 0               | 0               | 0                                                      | 0                                                                                     |
| Data Type               | On Board    | On Board     | On Board                                                                       | On Board       | On Board                                                                                                                            | On Board        | On Board        | On Board                                               | On Board                                                                              |
| UNIT                    | U/L         | U/L          | ng/mL                                                                          | g/L            | μmol/L                                                                                                                              | mg/L            | U/L             | mg/L                                                   | mmol/L                                                                                |
| TECHNICAL LIMIT         | 2-200       | 0-150        | 10-1000                                                                        | 0.06-4.80      | 0-2500                                                                                                                              | 0-400           | 2-200           | 40-2000                                                | 0—1.5                                                                                 |
| EXPECTED VALUE          | 0-10        | 0-10         | Male30~300<br>Female<br>Before<br>menopause10~160;<br>After<br>menopause30~300 | 2.0-4.0        | Serum: Male:<br>59~104: μmol/L<br>Female: 45~84:<br>μmol/L<br>Urine: Male:<br>9000~19000<br>μmol/24h<br>Female: 6000~13000 μmol/24h | 0-20            | 0.3-11.5        | 24h urine: <<br>140mg/24h<br>Random urine:<br><150mg/L | Children:<br>0.12~0.33<br>Male: 0.21~0.43<br>Female:<br>0.15~0.36<br>Urine: 14.9~44.6 |
| STD(1) CONC-POS-VOL     | 0 - 999 - 5 | 0 - 999 - 12 | 0.00 - 999 - 7                                                                 | 0.00 - 999 - 2 | 0.00 - 999 - 5                                                                                                                      | 0.00 - 999 - 20 | 0.00 - 999 - 14 | 0.00 - 999 - 9                                         | 0.0 - 999 - 4                                                                         |
| STD(2) CONC-POS-VOL     | * - # - 5   | * - # - 12   | * - # - 7                                                                      | * - # - 2      | * - # - 5                                                                                                                           | * - # - 20      | * - # - 14      | * - # - 9                                              | * - # - 4                                                                             |
| K FACTOR                |             |              |                                                                                |                |                                                                                                                                     |                 |                 |                                                        |                                                                                       |

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| TEST/NAME               | UREA          | C3            | C4               | IgA            | IgG            | IgM            | RF             | ALT                        | AST            |
|-------------------------|---------------|---------------|------------------|----------------|----------------|----------------|----------------|----------------------------|----------------|
| ASSAY CODE              | 2 Point Rate  | 2 Point END   | 2 Point END      | 2 Point END    | 2 Point END    | 2 Point END    | 2 Point END    | Rate- A                    | Rate- A        |
| REACTION TIME           | 10            | 10            | 10               | 10             | 10             | 10             | 10             | 10                         | 10             |
| WAVE(SUB/PRIMARY)       | 405/340       | 750/340       | 750/340          | 0/340          | 0/700          | 0/340          | 750/570        | 405 / 340                  | 405 / 340      |
| ASSAY POINT             | 19/22         | 11/28         | 11/28            | 11/28          | 11/28          | 11/28          | 18/28          | 20/26                      | 20/26          |
| SAMPLE VOL(NOR/DEC/INC) | 2.5           | 2             | 2.4              | 2              | 2              | 2              | 4              | 12.5                       | 12.5           |
| REAGENT T1              | 200           | 270           | 200              | 200            | 270            | 200            | 192            | 200                        | 200            |
| REAGENT T2              | 0             | 0             | 0                | 0              | 0              | 0              | 0              | 0                          | 0              |
| REAGENT T3              | 50            | 60            | 40               | 40             | 60             | 40             | 48             | 50                         | 50             |
| REAGENT T4              | 0             | 0             | 0                | 0              | 0              | 0              | 0              | 0                          | 0              |
| ABS LIMIT CLASS 1       | 0             | 32000         | 32000            | 32000          | 32000          | 32000          | 32000          | 0                          | 0              |
| CLASS 2                 | 32000         | 32000         | 32000            | 32000          | 32000          | 32000          | 32000          | 32000                      | 32000          |
| INC/DEC                 | Decrease      | Increase      | Increase         | Increase       | Increase       | Increase       | Increase       | Decrease                   | Decrease       |
| CALIB TYPE              | LINEAR        | SPLINE        | SPLINE           | SPLINE         | SPLINE         | SPLINE         | SPLINE         | LINEAR                     | LINEAR         |
| CALIB POINT             | 2             | 5             | 5                | 5              | 5              | 5              | 5              | 2                          | 2              |
| SPAN POINT              | 2             | 5             | 5                | 5              | 5              | 5              | 5              | 2                          | 2              |
| WEIGHT                  | 0             | 0             | 0                | 0              | 0              | 0              | 0              | 0                          | 0              |
| Data Type               | On Board      | On Board      | On Board         | On Board       | On Board       | On Board       | On Board       | On Board                   | On Board       |
| UNIT                    | mmol/L        | g/L           | g/L              | g/L            | g/L            | g/L            | IU/mL          | U/L                        | U/L            |
| TECHNICAL LIMIT         | 0—35          | 0.20-4.00     | 0.05-1.00        | 0.30-6.00      | 0.3-40         | 0.20-3.00      | 3-160          | 4-1000                     | 3-1000         |
| EXPECTED VALUE          | 2.82—8.2      | 0.8-1.85      | 0.10-0.40        | 0.72-4.2       | 7.0-16         | 0.4-2.3        | 0-30           | Male: 5-40<br>Female: 5-35 | 8-40           |
| STD(1) CONC-POS-VOL     | 0 - 999 - 2.5 | 0.00 - 999 -2 | 0.00 - 999 - 2.4 | 0.00 - 999 - 2 | 0.00 - 999 - 2 | 0.00 - 999 - 2 | 0.00 - 999 - 4 | 0 - 999 - 12.5             | 0 - 999 - 12.5 |
| STD(2) CONC-POS-VOL     | * - # - 2.5   | * - # - 2     | * - # - 2.4      | * - # - 2      | * - # - 2      | * - # - 2      | * - # - 4      | * - # - 12.5               | * - # - 12.5   |
| K FACTOR                |               |               |                  |                |                |                |                |                            |                |

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| TEST/NAME               | GGT                        | CHE         | TB                               | DB             | TBIL          | DBIL           | TB-V           | DB-V           | TBA           |
|-------------------------|----------------------------|-------------|----------------------------------|----------------|---------------|----------------|----------------|----------------|---------------|
| ASSAY CODE              | Rate- A                    | Rate- A     | 1 Point                          | 1 Point        | 2 Point END   | 2 Point END    | 2 Point END    | 2 Point END    | 2 Point Rate  |
| REACTION TIME           | 10                         | 10          | 10                               | 10             | 10            | 10             | 10             | 10             | 10            |
| WAVE(SUB/PRIMARY)       | 505/405                    | 505/405     | 660/570                          | 660/570        | 700/546       | 700/546        | 546/450        | 546/450        | 505/405       |
| ASSAY POINT             | 20/26                      | 20/23       | 28                               | 28             | 14/28         | 14/28          | 14/28          | 14/28          | 22/28         |
| SAMPLE VOL(NOR/DEC/INC) | 25                         | 3           | 20                               | 20             | 5             | 10             | 8              | 8              | 3.2           |
| REAGENT T1              | 200                        | 240         | 0                                | 0              | 200           | 200            | 224            | 224            | 216           |
| REAGENT T2              | 0                          | 0           | 0                                | 0              | 0             | 0              | 0              | 0              | 0             |
| REAGENT T3              | 50                         | 60          | 200                              | 200            | 50            | 50             | 56             | 56             | 72            |
| REAGENT T4              | 0                          | 0           | 0                                | 0              | 0             | 0              | 0              | 0              | 0             |
| ABS LIMIT CLASS 1       | 32000                      | 32000       | 32000                            | 32000          | 0             | 0              | 0              | 0              | 32000         |
| CLASS 2                 | 32000                      | 32000       | 32000                            | 32000          | 32000         | 32000          | 32000          | 32000          | 32000         |
| INC/DEC                 | Increase                   | Increase    | Increase                         | Increase       | Increase      | Increase       | Decrease       | Decrease       | Increase      |
| CALIB TYPE              | LINEAR                     | LINEAR      | LINEAR                           | LINEAR         | LINEAR        | LINEAR         | LINEAR         | LINEAR         | LINEAR        |
| CALIB POINT             | 2                          | 2           | 2                                | 2              | 2             | 2              | 2              | 2              | 2             |
| SPAN POINT              | 2                          | 2           | 2                                | 2              | 2             | 2              | 2              | 2              | 2             |
| WEIGHT                  | 0                          | 0           | 0                                | 0              | 0             | 0              | 0              | 0              | 0             |
| Data Type               | On Board                   | On Board    | On Board                         | On Board       | On Board      | On Board       | On Board       | On Board       | On Board      |
| UNIT                    | U/L                        | U/L         | μmol/l                           | μmol/l         | μmol/L        | μmol/L         | μmol/l         | μmol/l         | μmol/l        |
| TECHNICAL LIMIT         | 0—450                      | 0-15000     | 1.7-300                          | 1.7-300        | 2-684         | 3-342          | 0.0-684.0      | 0.0-342.0      | 1-180         |
| EXPECTED VALUE          | Male: 0-50<br>Female: 0-30 | 5000-12000  | Adult: 1.7-21<br>Newborn: 20-200 | 1.7—6.8        | 3.42-20.5     | 0-6.84         | 1.7-21         | 0-6.8          | 1-12          |
| STD(1) CONC-POS-VOL     | 0 - 999 - 25               | 0 - 999 - 3 | 0.0 - 999 - 20                   | 0.0 - 999 - 20 | 0.0 - 999 - 5 | 0.0 - 999 - 10 | 0.00 - 999 - 8 | 0.00 - 999 - 8 | 0 - 999 - 3.2 |
| STD(2) CONC-POS-VOL     | * - # - 25                 | * - # - 3   | * - # - 20                       | * - # - 20     | * - # - 5     | * - # - 10     | * - # - 8      | * - # - 8      | * - # - 3.2   |
| K FACTOR                |                            |             |                                  |                |               |                |                |                |               |

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| TEST/NAME               | GLDH         | LAP          | TP            | ALB           | PA             | α1-MG                              | CYS-C          | RBP               | NGAL                                  |
|-------------------------|--------------|--------------|---------------|---------------|----------------|------------------------------------|----------------|-------------------|---------------------------------------|
| ASSAY CODE              | Rate- A      | Rate- A      | 1 Point       | 1 Point       | 2 Point END    | 2 Point END                        | 2 Point END    | 2 Point END       | 2 Point END                           |
| REACTION TIME           | 10           | 10           | 10            | 10            | 10             | 10                                 | 10             | 10                | 10                                    |
| WAVE(SUB/PRIMARY)       | 405 / 340    | 505 / 405    | 700 / 546     | 700/600       | 0/340          | 0/600                              | 0/660          | 0/600             | 0/570                                 |
| ASSAY POINT             | 22/28        | 22/28        | 34            | 15            | 12/28          | 18-28                              | 18-28          | 18-28             | 18-28                                 |
| SAMPLE VOL(NOR/DEC/INC) | 15           | 15           | 5             | 2             | 3              | 2                                  | 3              | 2                 | 2.1                                   |
| REAGENT T1              | 240          | 240          | 250           | 300           | 250            | 240                                | 150            | 210               | 210                                   |
| REAGENT T2              | 0            | 0            | 0             | 0             | 50             | 0                                  | 0              | 0                 | 0                                     |
| REAGENT T3              | 60           | 60           | 0             | 0             | 0              | 60                                 | 50             | 70                | 70                                    |
| REAGENT T4              | 0            | 0            | 0             | 0             | 0              | 0                                  | 0              | 0                 | 0                                     |
| ABS LIMIT CLASS 1       | 0            | 32000        | 32000         | 32000         | 32000          | 32000                              | 32000          | 32000             | 32000                                 |
| CLASS 2                 | 32000        | 32000        | 32000         | 32000         | 32000          | 32000                              | 32000          | 32000             | 32000                                 |
| INC/DEC                 | Decrease     | Increase     | Increase      | Increase      | Increase       | Increase                           | Increase       | Increase          | Increase                              |
| CALIB TYPE              | LINEAR       | K FACTOR     | LINEAR        | LINEAR        | SPLINE         | Logit-Log 5P                       | Logit-Log 5P   | Logit-Log 5P      | Logit-Log 5P                          |
| CALIB POINT             | 2            | 2            | 2             | 2             | 5              | 5                                  | 6              | 5                 | 6                                     |
| SPAN POINT              | 2            | 2            | 2             | 2             | 5              | 5                                  | 6              | 5                 | 6                                     |
| WEIGHT                  | 0            | 0            | 0             | 0             | 0              | 0                                  | 0              | 0                 | 0                                     |
| Data Type               | On Board     | On Board     | On Board      | On Board      | On Board       | On Board                           | On Board       | On Board          | On Board                              |
| UNIT                    | U/L          | U/L          | g/l           | g/l           | mg/dL          | mg/L                               | mg/L           | mg/L              | ng/mL                                 |
| TECHNICAL LIMIT         | 3-100        | 5-150        | 5.0-150       | 2.0-60        | 11-56          | 2-100                              | 0.4~8.0        | 0.5-140.0         | 50~5000                               |
| EXPECTED VALUE          | 0-10         | 0-40         | 60—83         | 37—53         | 20-40          | Serum: 10~30mg/L<br>Urine: ≤12mg/L | 0.00-1.16      | 22mg/L<br>~70mg/L | Plasma: ≤180ng/mL<br>Urine: ≤100ng/mL |
| STD(1) CONC-POS-VOL     | 0 - 999 - 15 | 0 - 999 - 15 | 0.0 - 999 - 5 | 0.0 - 999 - 2 | 0.00 - 999 - 3 | 0.00 - 999 - 2                     | 0.00 - 999 - 3 | 0.00 - 999 - 2    | 0.00 - 999 - 2.1                      |
| STD(2) CONC-POS-VOL     | * - # - 15   | * - # - 15   | * - # - 5     | * - # - 2     | * - # - 3      | * - # - 2                          | * - # - 3      | * - # - 2         | * - # - 2.1                           |
| K FACTOR                |              | 21210        |               |               |                |                                    |                |                   |                                       |

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| TEST/NAME               | Lp(a)            | APOA II         | APOC II         | APO E         | $\alpha$ 2-MG  | AAG           | AAT           | CCP            | PCT            |
|-------------------------|------------------|-----------------|-----------------|---------------|----------------|---------------|---------------|----------------|----------------|
| ASSAY CODE              | 2 Point END      | 2 Point END     | 2 Point END     | 2 Point END   | 2 Point END    | 2 Point END   | 2 Point END   | 2 Point END    | 2 Point END    |
| REACTION TIME           | 10               | 10              | 10              | 10            | 10             | 10            | 10            | 10             | 10             |
| WAVE(SUB/PRIMARY)       | 0/600            | 0/600           | 0/340           | 0/340         | 0/340          | 0/340         | 0/340         | 750/546        | 0/600          |
| ASSAY POINT             | 18-28            | 11-28           | 11-28           | 11-28         | 11-28          | 11-28         | 11-28         | 11-28          | 18-27          |
| SAMPLE VOL(NOR/DEC/INC) | 2.4              | 3.5             | 5.6             | 3             | 30             | 2             | 2             | 6              | 15             |
| REAGENT T1              | 204              | 210             | 210             | 210           | 200            | 240           | 225           | 180            | 180            |
| REAGENT T2              | 0                | 0               | 0               | 0             | 0              | 0             | 0             | 0              | 0              |
| REAGENT T3              | 68               | 70              | 70              | 70            | 40             | 60            | 75            | 60             | 60             |
| REAGENT T4              | 0                | 0               | 0               | 0             | 0              | 0             | 0             | 0              | 0              |
| ABS LIMIT CLASS 1       | 32000            | 32000           | 32000           | 32000         | 32000          | 32000         | 32000         | 32000          | 32000          |
| CLASS 2                 | 32000            | 32000           | 32000           | 32000         | 32000          | 32000         | 32000         | 32000          | 32000          |
| INC/DEC                 | Increase         | Increase        | Increase        | Increase      | Increase       | Increase      | Increase      | Increase       | Increase       |
| CALIB TYPE              | SPLINE           | Logit-Log 5P    | Logit-Log 5P    | Logit-Log 5P  | Logit-Log 5P   | Logit-Log 5P  | Logit-Log 5P  | LINEAR         | Logit-Log 5P   |
| CALIB POINT             | 5                | 5               | 5               | 5             | 6              | 5             | 5             | 2              | 5              |
| SPAN POINT              | 5                | 5               | 5               | 5             | 6              | 5             | 5             | 2              | 5              |
| WEIGHT                  | 0                | 0               | 0               | 0             | 0              | 0             | 0             | 0              | 0              |
| Data Type               | On Board         | On Board        | On Board        | On Board      | On Board       | On Board      | On Board      | On Board       | On Board       |
| UNIT                    | mg/L             | mg/dL           | mg/dL           | mg/L          | mg/L           | g/L           | g/L           | U/ml           | ng/mL          |
| TECHNICAL LIMIT         | 30-1000          | 3~60            | 0.2~10          | 2~100         | 2~90           | 0.2-4         | 0.5~6.0       | 5-100          | 0.2-60         |
| EXPECTED VALUE          | <300mg/L         | 25-35           | 1.6-4.2mg/dL    | 29-53         | 0-4mg/L        | 0.5~1.2g/L    | 0.9-2         | <35            | <0.5           |
| STD(1) CONC-POS-VOL     | 0.00 - 999 - 2.4 | 0.00 - 999 -3.5 | 0.00 - 999 -5.6 | 0.00 - 999 -3 | 0.00 - 999 -30 | 0.00 - 999 -2 | 0.00 - 999 -2 | 0.00 - 999 - 6 | 0.00 - 999 -15 |
| STD(2) CONC-POS-VOL     | * - # - 2.4      | * - # - 3.5     | * - # - 5.6     | * - # - 3     | * - # - 30     | * - # - 2     | * - # - 2     | * - # - 6      | * - # - 15     |
| K FACTOR                |                  |                 |                 |               |                |               |               |                |                |

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| TEST/NAME               | SAA           | Mb            | H-FABP        | HP             | AFU          | CG           | GPDA         | MAO         | mAST        |
|-------------------------|---------------|---------------|---------------|----------------|--------------|--------------|--------------|-------------|-------------|
| ASSAY CODE              | 2 Point END   | 2 Point END   | 2 Point END   | 2 Point END    | Rate- A      | Rate- A      | Rate- A      | Rate- A     | Rate- A     |
| REACTION TIME           | 10            | 10            | 10            | 10             | 10           | 10           | 10           | 10          | 10          |
| WAVE(SUB/PRIMARY)       | 0/546         | 0/570         | 0/700         | 0/340          | 405          | 340          | 405          | 340         | 405/340     |
| ASSAY POINT             | 18-28         | 18-28         | 20/28         | 11-28          | 9-15         | 22/31        | 22-31        | 12-18       | 20-26       |
| SAMPLE VOL(NOR/DEC/INC) | 2             | 6             | 4             | 2              | 20           | 12           | 13           | 20          | 15          |
| REAGENT T1              | 150           | 180           | 100           | 225            | 200          | 200          | 192          | 200         | 200         |
| REAGENT T2              | 0             | 0             | 0             | 0              | 0            | 0            | 0            | 0           | 0           |
| REAGENT T3              | 30            | 60            | 100           | 75             | 0            | 50           | 48           | 0           | 50          |
| REAGENT T4              | 0             | 0             | 0             | 0              | 0            | 0            | 0            | 0           | 0           |
| ABS LIMIT CLASS 1       | 32000         | 32000         | 32000         | 32000          | 32000        | 32000        | 32000        | 0           | 0           |
| CLASS 2                 | 32000         | 32000         | 32000         | 32000          | 32000        | 32000        | 32000        | 32000       | 32000       |
| INC/DEC                 | Increase      | Increase      | Increase      | Increase       | Increase     | Increase     | Increase     | Decrease    | Decrease    |
| CALIB TYPE              | Logit-Log 5P  | Logit-Log 5P  | Logit-Log 5P  | Logit-Log 5P   | LINEAR       | Logit-log5p  | LINEAR       | LINEAR      | LINEAR      |
| CALIB POINT             | 5             | 5             | 5             | 5              | 2            | 5            | 2            | 2           | 2           |
| SPAN POINT              | 5             | 5             | 5             | 5              | 2            | 5            | 2            | 2           | 2           |
| WEIGHT                  | 0             | 0             | 0             | 0              | 0            | 0            | 0            | 0           | 0           |
| Data Type               | On Board      | On Board      | On Board      | On Board       | On Board     | On Board     | On Board     | On Board    | On Board    |
| UNIT                    | mg/L          | ng/mL         | ng/mL         | g/L            | U/L          | μg/mL        | U/L          | U/L         | U/L         |
| TECHNICAL LIMIT         | 5~240         | 10-800        | 5-100         | 0.2~5.0        | 5~80         | 2.5~50       | 10-400       | 5-100       | 5-130       |
| EXPECTED VALUE          | ≤10           | ≤70ng/mL      | <5            | 0.3-2          | ≤40          | <2.7         | 44-116       | ≤11         | ≤15         |
| STD(1) CONC-POS-VOL     | 0.00 - 999 -2 | 0.00 - 999 -6 | 0.00 - 999 -4 | 0.00 - 999 - 2 | 0 - 999 - 20 | 0 - 999 - 12 | 0 - 999 - 13 | 0 - 999 -20 | 0 - 999 -15 |
| STD(2) CONC-POS-VOL     | * - # - 2     | * - # - 6     | * - # - 4     | * - # - 2      | * - # - 20   | * - # - 12   | * - # - 13   | * - # - 20  | * - # -15   |
| K FACTOR                |               |               |               |                |              |              |              |             |             |

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| TEST/NAME               | FFA                                    | β-HB        | GA          | IMA          | LDH1         | Cu                                   | Na           | AMY                         | LPS         |
|-------------------------|----------------------------------------|-------------|-------------|--------------|--------------|--------------------------------------|--------------|-----------------------------|-------------|
| ASSAY CODE              | 2 Point END                            | 2 Point END | 2 Point END | 2 Point END  | Rate- A      | 2 Point END                          | 2 Point Rate | Rate- A                     | Rate- A     |
| REACTION TIME           | 10                                     | 10          | 10          | 10           | 10           | 10                                   | 10           | 10                          | 10          |
| WAVE(SUB/PRIMARY)       | 546                                    | 505         | 546         | 505          | 405/340      | 600                                  | 405          | 505/405                     | 570         |
| ASSAY POINT             | 11-28                                  | 11-28       | 11-28       | 11-28        | 20-26        | 11-28                                | 20-26        | 21-24                       | 20-26       |
| SAMPLE VOL(NOR/DEC/INC) | 4                                      | 6           | 5           | 24           | 15           | 10                                   | 8            | 5                           | 3           |
| REAGENT T1              | 240                                    | 225         | 240         | 180          | 200          | 150                                  | 180          | 160                         | 225         |
| REAGENT T2              | 0                                      | 0           | 0           | 0            | 0            | 0                                    | 0            | 0                           | 0           |
| REAGENT T3              | 60                                     | 75          | 60          | 60           | 100          | 50                                   | 60           | 40                          | 75          |
| REAGENT T4              | 0                                      | 0           | 0           | 0            | 0            | 0                                    | 0            | 0                           | 0           |
| ABS LIMIT CLASS 1       | 32000                                  | 32000       | 32000       | 32000        | 32000        | 32000                                | 32000        | 32000                       | 32000       |
| CLASS 2                 | 32000                                  | 32000       | 32000       | 32000        | 32000        | 32000                                | 32000        | 32000                       | 32000       |
| INC/DEC                 | Increase                               | Increase    | Increase    | Increase     | Increase     | Increase                             | Increase     | Increase                    | Increase    |
| CALIB TYPE              | LINEAR                                 | LINEAR      | LINEAR      | LINEAR       | LINEAR       | LINEAR                               | LINEAR       | LINEAR                      | LINEAR      |
| CALIB POINT             | 2                                      | 2           | 2           | 2            | 2            | 2                                    | 2            | 2                           | 2           |
| SPAN POINT              | 2                                      | 2           | 2           | 2            | 2            | 2                                    | 2            | 2                           | 2           |
| WEIGHT                  | 0                                      | 0           | 0           | 0            | 0            | 0                                    | 0            | 0                           | 0           |
| Data Type               | On Board                               | On Board    | On Board    | On Board     | On Board     | On Board                             | On Board     | On Board                    | On Board    |
| UNIT                    | mmol/L                                 | mmol/L      | g/L         | U/mL         | U/L          | μmol/L                               | mmol/L       | U/L                         | U/L         |
| TECHNICAL LIMIT         | 0.1~3                                  | 0.02~4.5    | 0.02~4.5    | 3~124        | 10-1000      | 5~79                                 | 80~180       | 5-1500                      | 3-300       |
| EXPECTED VALUE          | Male: 0.1-0.6 ;<br>Female:<br>0.1-0.45 | ≤0.28       | ≤0.28       | ≤78.0        | 17~96        | Male: 11-24;<br>Female:<br>12.6-24.4 | 136 ~ 146    | Serum: <220<br>Urine: <1200 | 13~60       |
| STD(1) CONC-POS-VOL     | 0 - 999 - 4                            | 0 - 999 - 6 | 0 - 999 - 5 | 0 - 999 - 24 | 0 - 999 - 15 | 0 - 999 - 10                         | 0 - 999 - 8  | 0 - 999 - 5                 | 0 - 999 - 3 |
| STD(2) CONC-POS-VOL     | * - # - 4                              | * - # - 6   | * - # - 5   | * - # - 24   | * - # - 15   | * - # - 10                           | * - # - 8    | * - # - 5                   | * - # - 3   |
| K FACTOR                |                                        |             |             |              |              |                                      |              |                             |             |

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| TEST/NAME                 | PAMY                                          | PL          | SOD          | GLU(HK)                             | GLU (OX)                            | HbA1C          | HbA1C-S        | HDL-C                                      | Fe                         | Zn                                                                                                 |
|---------------------------|-----------------------------------------------|-------------|--------------|-------------------------------------|-------------------------------------|----------------|----------------|--------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------|
| ASSAY CODE                | Rate- A                                       | 2 Point END | 2 Point END  | 2 Point END                         | 2 Point END                         | 2 Point END    | 2 Point END    | 2 Point END                                | 2 Point END                | 2 Point END                                                                                        |
| REACTION TIME             | 10                                            | 10          | 10           | 10                                  | 10                                  | 10             | 10             | 10                                         | 10                         | 10                                                                                                 |
| WAVE(SUB/PRIMA            | 505/405                                       | 600         | 405          | 405/340                             | 660 / 505                           | 0/660          | 0/660          | 660/546                                    | 600                        | 700/570                                                                                            |
| ASSAY POINT               | 22-31                                         | 11-28       | 11-28        | 11/28                               | 5/31                                | 21/30          | 21/30          | 11/28                                      | 11-28                      | 11/28                                                                                              |
| SAMPLE<br>VOL(NOR/DEC/INC | 5                                             | 2           | 12           | 2                                   | 2                                   | 4              | 6              | 2                                          | 20                         | 12                                                                                                 |
| REAGENT T1                | 160                                           | 200         | 180          | 240                                 | 240                                 | 150            | 150            | 150                                        | 200                        | 200                                                                                                |
| REAGENT T2                | 0                                             | 0           | 0            | 0                                   | 60                                  | 0              | 0              | 0                                          | 0                          | 0                                                                                                  |
| REAGENT T3                | 40                                            | 50          | 60           | 60                                  | 0                                   | 50             | 50             | 50                                         | 40                         | 50                                                                                                 |
| REAGENT T4                | 0                                             | 0           | 0            | 0                                   | 0                                   | 0              | 0              | 0                                          | 0                          | 0                                                                                                  |
| ABS LIMIT CLASS           | 32000                                         | 32000       | 32000        | 32000                               | 32000                               | 32000          | 32000          | 32000                                      | 32000                      | 32000                                                                                              |
| CLASS 2                   | 32000                                         | 32000       | 32000        | 32000                               | 32000                               | 32000          | 32000          | 32000                                      | 32000                      | 32000                                                                                              |
| INC/DEC                   | Increase                                      | Increase    | Increase     | Increase                            | Increase                            | Increase       | Increase       | Increase                                   | Increase                   | Increase                                                                                           |
| CALIB TYPE                | LINEAR                                        | LINEAR      | LINEAR       | LINEAR                              | LINEAR                              | SPLINE         | SPLINE         | LINEAR                                     | LINEAR                     | LINEAR                                                                                             |
| CALIB POINT               | 2                                             | 2           | 2            | 2                                   | 2                                   | 5              | 5              | 2                                          | 2                          | 2                                                                                                  |
| SPAN POINT                | 2                                             | 2           | 2            | 2                                   | 2                                   | 5              | 5              | 2                                          | 2                          | 2                                                                                                  |
| WEIGHT                    | 0                                             | 0           | 0            | 0                                   | 0                                   | 0              | 0              | 0                                          | 0                          | 0                                                                                                  |
| Data Type                 | On Board                                      | On Board    | On Board     | On Board                            | On Board                            | On Board       | On Board       | On Board                                   | On Board                   | On Board                                                                                           |
| UNIT                      | U/L                                           | mmol/L      | U/mL         | mmol/L                              | mmol/L                              | %              | %              | mmol/L                                     | μmol/L                     | μg/dl                                                                                              |
| TECHNICAL LIMIT           | 0-1500                                        | 0.1-12.9    | 10~250       | 0.5-40                              | 0.5-30                              | 2.00-14.00     | 2.00-14.00     | 0.10-3.80                                  | 5-120                      | 5-500                                                                                              |
| EXPECTED VALUE            | Serum/Plasm<br>a8 ~ 53<br>Random<br>urine<370 | 1.9-3.2     | 110-215      | FBS :3.9~6.1<br>Urine:<br>0.28~0.83 | FBS :3.9~6.1<br>Urine:<br>0.28~0.83 | 3.8-5.8        | 3.8-5.8        | Male:<br>1.07~1.73<br>Female:<br>1.26~1.89 | Male: 9~32<br>Female: 7~30 | Male: 72.6~<br>127.5, Female:<br>70.0~114.5,<br>Children:<br>64.1~109.9,<br>Newborn:<br>49.7~100.1 |
| STD(1)<br>CONC-POS-VOL    | 0 - 999 - 5                                   | 0 - 999 - 2 | 0 - 999 - 12 | 0.00 - 999 - 2                      | 0.00 - 999 - 2                      | 0.00 - 999 - 4 | 0.00 - 999 - 6 | 0.00 - 999 - 2                             | 0 - 999 - 20               | 0.00 - 999 - 12                                                                                    |
| STD(2)<br>CONC-POS-VOL    | * - # - 5                                     | * - # - 2   | * - # - 12   | * - # - 2                           | * - # - 2                           | * - # - 4      | * - # - 6      | * - # - 2                                  | * - # - 20                 | * - # - 12                                                                                         |
| K FACTOR                  |                                               |             |              |                                     |                                     |                |                |                                            |                            |                                                                                                    |

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| TEST/NAME                 | LAC                                | ALP                                                                                         | CK                                   | CK-MB        | cTnI         | HBDH        | HCY           | LDH        | LDL-C          | FMN          |
|---------------------------|------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------|--------------|--------------|-------------|---------------|------------|----------------|--------------|
| ASSAY CODE                | 2 Point END                        | Rate- A                                                                                     | Rate- A                              | Rate- A      | 2 Point END  | Rate- A     | 2 Point END   | Rate- A    | 2 Point END    | 2 Point Rate |
| REACTION TIME             | 10                                 | 10                                                                                          | 10                                   | 10           | 10           | 10          | 10            | 10         | 10             | 10           |
| WAVE(SUB/PRIMA            | 660/546                            | 505 / 405                                                                                   | 405 / 340                            | 405 / 340    | 0 / 505      | 405 / 340   | 405/340       | 405 / 340  | 660/546        | 660/546      |
| ASSAY POINT               | 11/28                              | 21/26                                                                                       | 23/26                                | 26/31        | 19/28        | 20/26       | 27/31         | 19/22      | 11/28          | 14/28        |
| SAMPLE<br>VOL(NOR/DEC/INC | 2.4                                | 4                                                                                           | 5                                    | 10           | 25           | 5           | 10.4          | 4          | 2              | 10           |
| REAGENT T1                | 192                                | 200                                                                                         | 200                                  | 200          | 180          | 200         | 192           | 192        | 150            | 200          |
| REAGENT T2                | 0                                  | 0                                                                                           | 0                                    | 0            | 0            | 0           | 0             | 0          | 0              | 0            |
| REAGENT T3                | 48                                 | 50                                                                                          | 50                                   | 50           | 60           | 50          | 52            | 48         | 50             | 0            |
| REAGENT T4                | 0                                  | 0                                                                                           | 0                                    | 0            | 0            | 0           | 0             | 0          | 0              | 0            |
| ABS LIMIT CLASS           | 32000                              | 32000                                                                                       | 32000                                | 32000        | 32000        | 0           | 0             | 32000      | 32000          | 32000        |
| CLASS 2                   | 32000                              | 32000                                                                                       | 32000                                | 32000        | 32000        | 32000       | 32000         | 32000      | 32000          | 32000        |
| INC/DEC                   | Increase                           | Increase                                                                                    | Increase                             | Increase     | Increase     | Decrease    | Decrease      | Increase   | Increase       | Increase     |
| CALIB TYPE                | LINEAR                             | LINEAR                                                                                      | LINEAR                               | 2            | Logit-log5p  | LINEAR      | LINEAR        | LINEAR     | LINEAR         | LINEAR       |
| CALIB POINT               | 2                                  | 2                                                                                           | 2                                    | 2            | 5            | 2           | 2             | 2          | 2              | 2            |
| SPAN POINT                | 2                                  | 2                                                                                           | 2                                    | 0            | 5            | 2           | 2             | 2          | 2              | 2            |
| WEIGHT                    | 0                                  | 0                                                                                           | 0                                    | 0            | 0            | 0           | 0             | 0          | 0              | 0            |
| Data Type                 | On Board                           | On Board                                                                                    | On Board                             | On Board     | On Board     | On Board    | On Board      | On Board   | On Board       | On Board     |
| UNIT                      | mmol/l                             | U/L                                                                                         | U/L                                  | U/L          | ng/mL        | U/L         | μmol/L        | U/L        | mmol/L         | mmol/L       |
| TECHNICAL LIMIT           | 0.1-13.3                           | 25-1200                                                                                     | 25—2000                              | 5.00—500     | 1—25         | 15—1000     | 3.0-50.0      | 25-800     | 0.20-11.60     | 0.80-6.00    |
| EXPECTED VALUE            | Plasma:<br>0.5~2.2<br>CSF: 1.1~2.4 | Male: 1~12<br><500, 12~15<br><750,<br>>25<br>40~150,<br>Female: 1~12<br><500, >15<br>40~150 | Male:<br>38~174<br>Female:<br>26~140 | 0—24         | 0-1.68       | 72—182      | 0-15          | 109-245    | 0-3.10         | 1.40-2.15    |
| STD(1)<br>CONC-POS-VOL    | 0.00 - 999 -2.4                    | 0 - 999 - 4                                                                                 | 0 - 999 - 5                          | 0 - 999 - 10 | 0 - 999 - 25 | 0 - 999 - 5 | 0 - 999 -10.4 | 0 - 999 -4 | 0.00 - 999 - 2 | 0 - 999 - 10 |
| STD(2)<br>CONC-POS-VOL    | * - # - 2.4                        | * - # - 4                                                                                   | * - # - 5                            | * - # - 10   | * - # - 25   | * - # - 5   | * - # - 10.4  | * - # - 4  | * - # - 2      | * - # - 10   |
| K FACTOR                  |                                    |                                                                                             |                                      | 83600        |              |             |               |            |                |              |