



February 12, 2026

Roche Diagnostics  
Noel Mencias  
Senior Regulatory Affairs Manager  
9115 Hague Rd.  
Indianapolis, Indiana 46250

Re: K253490

Trade/Device Name: Glucose HK Gen.3; ONLINE DAT Methadone II; cobas pro integrated solutions  
Regulation Number: 21 CFR 862.1345  
Regulation Name: Glucose test system  
Regulatory Class: Class II  
Product Code: CFR, DJR, JJE  
Dated: November 14, 2025  
Received: November 14, 2025

Dear Noel Mencias:

We have reviewed your section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (the Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database available at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Additional information about changes that may require a new premarket notification are provided in the FDA guidance documents entitled "Deciding When to Submit a 510(k) for a Change to an Existing Device"

(<https://www.fda.gov/media/99812/download>) and "Deciding When to Submit a 510(k) for a Software Change to an Existing Device" (<https://www.fda.gov/media/99785/download>).

Your device is also subject to, among other requirements, the Quality Management System Regulation (QMSR) (21 CFR Part 820), which includes, but is not limited to, ISO 13485 clause 7.3 (Design controls), ISO 13484 clause 8.3 (Nonconforming product), and ISO 13485 clause 8.5 (Corrective and preventative action). Please note that regardless of whether a change requires premarket review, the QMSR requires device manufacturers to review and approve changes to device design and production (ISO 13485 clause 7.3 and 21 CFR 820.70) and document changes and approvals in the device master record (21 CFR 820.181).

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801 and Part 809); medical device reporting (reporting of medical device-related adverse events) (21 CFR Part 803) for devices or postmarketing safety reporting (21 CFR Part 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the Quality Management System Regulation (QMSR) (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR Part 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR Parts 1000-1050.

All medical devices, including Class I and unclassified devices and combination product device constituent parts are required to be in compliance with the final Unique Device Identification System rule ("UDI Rule"). The UDI Rule requires, among other things, that a device bear a unique device identifier (UDI) on its label and package (21 CFR 801.20(a)) unless an exception or alternative applies (21 CFR 801.20(b)) and that the dates on the device label be formatted in accordance with 21 CFR 801.18. The UDI Rule (21 CFR 830.300(a) and 830.320(b)) also requires that certain information be submitted to the Global Unique Device Identification Database (GUDID) (21 CFR Part 830 Subpart E). For additional information on these requirements, please see the UDI System webpage at <https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/unique-device-identification-system-udi-system>.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice>) for more information or contact DICE by email ([DICE@fda.hhs.gov](mailto:DICE@fda.hhs.gov)) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

**THOMAS C. MILLER -S** Date: 2026.02.12  
14:43:07 -05'00'

*for* Paula Caposino, Ph.D.

Deputy Director

Division of Chemistry

and Toxicology Devices

OHT7: Office of In Vitro Diagnostics

Office of Product Evaluation and Quality

Center for Devices and Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known)  
K253490

Device Name

cobas pro integrated solutions;  
Glucose HK Gen.3;  
ONLINE DAT Methadone II

Indications for Use (Describe)

cobas pro integrated solutions is an automated analyzer, intended for running qualitative, semiquantitative, and quantitative clinical chemistry and immunochemistry assays as well as ion-selective measurements.

Glucose HK Gen.3 is an in vitro test for the quantitative determination of glucose in human serum, plasma, urine and CSF on cobas c systems. Glucose measurements are used in the diagnosis and treatment of carbohydrate metabolism disorders including diabetes mellitus, neonatal hypoglycemia, and idiopathic hypoglycemia, and pancreatic islet cell tumors.

Methadone II (MDN2) is an in vitro diagnostic test for the qualitative and semiquantitative detection of methadone in human urine on cobas c systems at a cutoff concentration of 300 ng/mL. Semiquantitative test results may be obtained that permit laboratories to assess assay performance as part of a quality control program. Semiquantitative assays are intended to determine an appropriate dilution of the specimen for confirmation by a confirmatory method such as gas chromatography/mass spectrometry (GC-MS).

Methadone II provides only a preliminary analytical test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. GC-MS is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are used.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

### CONTINUE ON A SEPARATE PAGE IF NEEDED.

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## 510(k) Summary

### cobas pro integrated solutions; Glucose HK Gen.3; ONLINE DAT Methadone II (K253490)

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of 21 CFR 807.92

|                                              |                                                                                                                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Submitter Name</b>                        | Roche Diagnostics                                                                                                                                                   |
| <b>Address</b>                               | 9115 Hague Road<br>P.O. Box 50416<br>Indianapolis, IN 46250-0457                                                                                                    |
| <b>Contact</b>                               | Noel Mencias<br>Phone: (463) 336-2546<br>Email: noel.mencias@roche.com                                                                                              |
| <b>Date Prepared</b>                         | October 24, 2025                                                                                                                                                    |
| <b>Proprietary Name</b>                      | Glucose HK Gen.3<br>ONLINE DAT Methadone II<br><b>cobas pro</b> integrated solutions                                                                                |
| <b>Common Name</b>                           | Glucose HK Gen.3<br>ONLINE DAT Methadone II<br><b>cobas pro</b> integrated solutions                                                                                |
| <b>Classification Name</b>                   | Hexokinase, Glucose<br>Enzyme Immunoassay, Methadone<br>Analyzer, Chemistry (photometric, discrete), for Clinical Use                                               |
| <b>Product Codes,<br/>Regulation Numbers</b> | CFR, 21 CFR 862.1345<br>DJR 21 CFR 862.3620<br>JJE, 21 CFR 862.2160                                                                                                 |
| <b>Predicate Devices</b>                     | Glucose HK Gen.3<br>ONLINE DAT Methadone II<br><b>cobas pro</b> integrated solutions                                                                                |
| <b>Establishment Registration</b>            | Roche Diagnostics GmbH Mannheim, Germany: 9610126<br>Roche Diagnostics GmbH Penzberg, Germany: 9610529<br>Roche Diagnostics Indianapolis, IN United States: 1823260 |

## 1. DEVICE DESCRIPTION

**cobas pro** integrated solutions is an automated analyzer, intended for running qualitative, semiquantitative, and quantitative clinical chemistry and immunochemistry assays as well as ion-selective measurements.

The **cobas pro** integrated solutions consists of a high throughput core unit (sample supply unit and sample buffer unit) and can be configured with different analytical units for immunology, clinical chemistry, and electrolyte testing. The **cobas c 703** analytical unit being added to **cobas pro** integrated solutions is a new clinical chemistry analyzer intended for the in-vitro quantitative/qualitative determination of analytes in body fluids.

Glucose is phosphorylated by hexokinase (HK) in the presence of adenosine triphosphate (ATP) and magnesium ions to produce glucose-6-phosphate (G-6-P) and adenosine diphosphate (ADP). Glucose-6-phosphate dehydrogenase (G-6-PDH) specifically oxidizes G-6-P to 6-phosphogluconate with the concurrent reduction of nicotinamide adenine dinucleotide (NAD) to nicotinamide adenine dinucleotide reduced (NADH). One micromole of NADH is produced for each micromole of glucose consumed. The NADH produced absorbs light at 340 nm and can be detected spectrophotometrically as an increased absorbance.

The Methadone assay is based on the kinetic interaction of microparticles in a solution (KIMS) as measured by changes in light transmission. In the absence of sample drug, soluble drug conjugates bind to antibody-bound microparticles, causing the formation of particle aggregates. As the aggregation reaction proceeds in the absence of sample drug, the absorbance increases.

When a urine sample contains the drug in question, this drug competes with the drug derivative conjugate for microparticle-bound antibody. Antibody bound to sample drug is no longer available to promote particle aggregation, and subsequent particle lattice formation is inhibited. The presence of sample drug diminishes the increasing absorbance in proportion to the concentration of drug in the sample. Sample drug content is determined relative to the value obtained for a known cutoff concentration of drug.

## 2. INDICATIONS FOR USE

**cobas pro** integrated solutions is an automated analyzer, intended for running qualitative, semiquantitative, and quantitative clinical chemistry and immunochemistry assays as well as ion-selective measurements.

Glucose HK Gen.3 is an in vitro test for the quantitative determination of glucose in human serum, plasma, urine and CSF on **cobas c** systems. Glucose measurements are used in the diagnosis and treatment of carbohydrate metabolism disorders including diabetes mellitus, neonatal hypoglycemia, and idiopathic hypoglycemia, and pancreatic islet cell tumors.

ONLINE DAT Methadone II (MDN2) is an in vitro diagnostic test for the qualitative and semiquantitative detection of methadone in human urine on **cobas c** systems at a cutoff concentration of 300 ng/mL. Semiquantitative test results may be obtained that permit laboratories to assess assay performance as part of a quality control program. Semiquantitative assays are intended to determine an appropriate dilution of the specimen for confirmation by a confirmatory method such as gas chromatography/mass spectrometry (GC-MS).

## 3. TECHNOLOGICAL CHARACTERISTICS

**Table 1: Comparison of the cobas c 703 in cobas pro integrated solutions versus the predicate cobas c 503 in cobas pro integrated solutions**

|                        | <b>Predicate<br/>cobas c 503 in cobas pro<br/>integrated solutions<br/>(K191899)</b>                                                    | <b>Candidate<br/>cobas c 703 in cobas pro<br/>integrated solutions<br/>(K253490)</b> |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Intended Use           | Fully automated clinical chemistry analyzer intended for the in-vitro quantitative/qualitative determination of analytes in body fluids | Same                                                                                 |
| Measurement Principal  | Absorbance Photometry (enzyme, substrate, proteins, DAT and TDM)                                                                        | Same                                                                                 |
| Workflow Principle     | Batch/random                                                                                                                            | Same                                                                                 |
| Throughput             | 1000 test/hr                                                                                                                            | 2000 test/hr                                                                         |
| <b>Sample Handling</b> |                                                                                                                                         |                                                                                      |

|                                                | <b>Predicate<br/>cobas c 503 in cobas pro<br/>integrated solutions<br/>(K191899)</b>                                                   | <b>Candidate<br/>cobas c 703 in cobas pro<br/>integrated solutions<br/>(K253490)</b> |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Typical Sample Volumes                         | 1.0 – 25.0 µL                                                                                                                          | Same                                                                                 |
| Sample Types                                   | Serum, plasma, urine, CSF and other depending on the chemistry test                                                                    | Same                                                                                 |
| Sample Handling system                         | Input and transport of samples using universal sample racks, modular sample buffer (MSB) input, core/transportation unit and STAT port | Same                                                                                 |
| Sample Capacity Onboard                        | 300                                                                                                                                    | Same                                                                                 |
| Sample Identification                          | Barcode on the sample or position on the rack                                                                                          | Same                                                                                 |
| <b>Reagent handling</b>                        |                                                                                                                                        |                                                                                      |
| Reagent Volume                                 | 5-135 µL                                                                                                                               | Same                                                                                 |
| Reagent Container                              | <b>cobas c</b> pack green (plastic containers with conus screw caps)                                                                   | Same                                                                                 |
| Reagent Access                                 | Reagent cassette caps pierced onboard by the instrument                                                                                | Same                                                                                 |
| Onboard Storage Temperature                    | 10°C (Range 5-15°C)                                                                                                                    | Same                                                                                 |
| Reagent bottle/Cassette identification         | RFID                                                                                                                                   | Same                                                                                 |
| On board reagent storage capacity              | 60 positions                                                                                                                           | 70 positions                                                                         |
| System Cycle time measuring cell               | 3.6 seconds photometric                                                                                                                | 1.8 seconds photometric                                                              |
| Reagent Mix                                    | Ultrasonic                                                                                                                             | Same                                                                                 |
| Automatic Rerun                                | Available                                                                                                                              | Same                                                                                 |
| Application information transfer to instrument | Via remote transfer (cobas Link) or CD                                                                                                 | Same                                                                                 |
| <b>Pipetting System</b>                        |                                                                                                                                        |                                                                                      |
| Sample and Reagent Syringes                    | Rotation and Z robotic                                                                                                                 | Same                                                                                 |
| Reagent Probes                                 | 2 polished steel probes                                                                                                                | 4 polished steel probes                                                              |
| Sample Probes                                  | Routine:<br>1 polished steel probe<br>HbA1c in whole blood:<br>1 polished steel probe                                                  | 2 polished steel probes, no HbA1c                                                    |
| Probe Cleaning                                 | Automatic for all probes                                                                                                               | Same                                                                                 |

|                                        | <b>Predicate<br/>cobas c 503 in cobas pro<br/>integrated solutions<br/>(K191899)</b>            | <b>Candidate<br/>cobas c 703 in cobas pro<br/>integrated solutions<br/>(K253490)</b> |
|----------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Liquid Level Detection                 | Samples: capacitance<br>Reagents: calculated level and counting                                 | Same                                                                                 |
| Clot Detection                         | Yes                                                                                             | Same                                                                                 |
| Temperature Control                    | Circulating water bath at 37°C                                                                  | Same                                                                                 |
| Reaction volume                        | Maximum 185 µL                                                                                  | Same                                                                                 |
| Volume ratios                          | Defined by master applications                                                                  | Same                                                                                 |
| Sample and Reagent Syringes            | Rotation and Z robotic                                                                          | Same                                                                                 |
| <b>Detection Information</b>           |                                                                                                 |                                                                                      |
| Spectrophotometer                      | Gradient photometer with discrete photodiodes in fixed array                                    | Same                                                                                 |
| Detection Unit                         | Photometric/Turbidimetric/Fluorescence and Potentiometric                                       | Same                                                                                 |
| Light source                           | Tungsten/halogen                                                                                | LED                                                                                  |
| Light path                             | 5.0 mm                                                                                          | Same                                                                                 |
| Measuring unit                         | 1                                                                                               | 1                                                                                    |
| Wavelengths (in nm)                    | 340,376, 415, 450, 480, 505, 546, 570, 600, 660, 700, 800                                       | Same                                                                                 |
| <b>Calibration and Quality Control</b> |                                                                                                 |                                                                                      |
| Calibrators & Control                  | CalSets and Controls                                                                            | Same                                                                                 |
| Calibration Modes                      | linear and non-linear full calibration, 1- and 2-point recalibration, automatic lot calibration | Same                                                                                 |
| Calibration Stability                  | up to the shelf life of the reagent                                                             | Same                                                                                 |
| On-board QC                            | Optional                                                                                        | Same                                                                                 |
| <b>Interfaces</b>                      |                                                                                                 |                                                                                      |
| Host Interface                         | Ethernet (HL7)                                                                                  | Same                                                                                 |
| Printer                                | Laser                                                                                           | Same                                                                                 |
| Display                                | Touch screen without physical keyboard and mouse                                                | Same                                                                                 |
| <b>Software</b>                        |                                                                                                 |                                                                                      |
| Software                               | <b>cobas pro</b> integrated solutions system software                                           | Same                                                                                 |
| Configuration                          | Several analytical units with one PC and one core                                               | Same                                                                                 |

|                                    | <b>Predicate<br/>cobas c 503 in cobas pro<br/>integrated solutions<br/>(K191899)</b>                                                                     | <b>Candidate<br/>cobas c 703 in cobas pro<br/>integrated solutions<br/>(K253490)</b> |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Units Controlled                   | ISE, c 503, e 801                                                                                                                                        | ISE, c 503, c 703, e 801                                                             |
| Function performed                 | Data Input, sample processing, result calculation, result reporting, quality control                                                                     | Same                                                                                 |
| PC (Control Unit) Functions        | Data input (keyboard, disc) data output (screen, printer, host)                                                                                          | Same                                                                                 |
| Core Unit Functions                | <b>cobas pro</b> core with real time database, data input and output (via system software communication), control of sample conveyer                     | Same                                                                                 |
| Analytical Unit(s) Functions       | Control of analytic processes (pipetting, incubation, detection) Primary Signal processing                                                               | Same                                                                                 |
| MSB Functions                      | Intermediate storage of sample racks                                                                                                                     | Same                                                                                 |
| Data Storage                       | Real time database in Core Unit (storage of System and Application parameters, Calibration Data, QC Data, Sample results, Alarm History)                 | Same                                                                                 |
| Software Controlled test countdown | Available                                                                                                                                                | Same                                                                                 |
| Result Calculation                 | Automated measuring of signal for kinetic and endpoint methods according to cycle time and automated calculation of concentrations via calibration curve | Same                                                                                 |
| Flagging of Errors                 | Available                                                                                                                                                | Same                                                                                 |

**Table 2: Similarities and Differences between the Glucose HK Gen.3 on cobas c 703 and the Predicate Device**

|                         | <b>Predicate<br/>Glucose HK Gen. 3 on<br/>cobas c 503 (K191899)</b>                                                          | <b>Candidate<br/>Glucose HK Gen. 3 on cobas<br/>c 703 (K253490)</b>                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Proprietary name        | Glucose HK Gen. 3                                                                                                            | Glucose HK Gen. 3                                                                                                            |
| Intended use            | In vitro test for the quantitative determination of glucose in human serum, plasma, urine and CSF on <b>cobas c</b> systems. | In vitro test for the quantitative determination of glucose in human serum, plasma, urine and CSF on <b>cobas c</b> systems. |
| Technology              | Photometric                                                                                                                  | Same                                                                                                                         |
| Test format             | Enzymatic                                                                                                                    | Same                                                                                                                         |
| Test type               | Quantitative                                                                                                                 | Same                                                                                                                         |
| Assay protocol          | R1+R3+Diluent+Sample, incubation                                                                                             | Same                                                                                                                         |
| Pipetting volume sample | 1.5 µL                                                                                                                       | Same                                                                                                                         |
| Pipetting volume R1     | 21 µL                                                                                                                        | Same                                                                                                                         |
| Pipetting volume R3     | 8 µL                                                                                                                         | Same                                                                                                                         |
| Sample types            | Serum, plasma, urine and CSF                                                                                                 | Same                                                                                                                         |
| Handling of R1 and R3   | Liquid, ready to use                                                                                                         | Same                                                                                                                         |
| Measuring Range         | 2 – 750 mg/dL (0.11 – 41.6 mmol/L)                                                                                           | Same                                                                                                                         |

**Table 3: Similarities and Differences between the ONLINE DAT Methadone II on cobas c 703 and the Predicate Device**

|              | <b>Predicate<br/>ONLINE DAT Methadone II on<br/>Roche/Hitachi Family<br/>(K021505)</b>                                                                                                                                                                                                               | <b>Candidate<br/>ONLINE DAT Methadone II on<br/>cobas c 703 (K253490)</b>                                                                                                                                                                                                                                                   |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methodology  | KIMS, Kinetic interaction of microparticles in a solution                                                                                                                                                                                                                                            | Same                                                                                                                                                                                                                                                                                                                        |
| Intended Use | Methadone II (MDN2) is an in vitro diagnostic test for the qualitative and semiquantitative detection of methadone in human urine on automated clinical chemistry analyzers at a cutoff concentration of 300 ng/mL. Semiquantitative test results may be obtained that permit laboratories to assess | Methadone II (MDN2) is an in vitro diagnostic test for the qualitative and semiquantitative detection of methadone in human urine on <b>cobas c</b> systems at a cutoff concentration of 300 ng/mL. Semiquantitative test results may be obtained that permit laboratories to assess assay performance as part of a quality |

|                                           | <b>Predicate<br/>ONLINE DAT Methadone II on<br/>Roche/Hitachi Family<br/>(K021505)</b>                                                                                                                                                                 | <b>Candidate<br/>ONLINE DAT Methadone II on<br/>cobas c 703 (K253490)</b>                                                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | assay performance as part of a quality control program.                                                                                                                                                                                                | control program. Semiquantitative assays are intended to determine an appropriate dilution of the specimen for confirmation by a confirmatory method such as gas chromatography/mass spectrometry (GC-MS). |
| Sample Type                               | Urine                                                                                                                                                                                                                                                  | Urine                                                                                                                                                                                                      |
| Reagents                                  | Conjugate Working Solution: Conjugated methadone derivative in buffer with BSA and preservative.<br><br>Antibody/Microparticle Working Solution: Microparticles coated with methadone monoclonal antibody (mouse) in buffer with BSA and preservative. | Same                                                                                                                                                                                                       |
| Controls                                  | Control Set DAT I: includes PreciPos DAT Set I and PreciNeg DAT Set I<br><br>Control Set DAT Clinical: includes PreciPOS DAT Clinical and PreciNeg DAT Clinical                                                                                        | Same                                                                                                                                                                                                       |
| Calibrators                               | Preciset DAT Plus I Calibrator Set                                                                                                                                                                                                                     | Preciset DAT Plus I calibrators<br>C.f.a.s. DAT Qualitative Plus<br>C.f.a.s. DAT Qualitative Plus Clinical                                                                                                 |
| Qualitative and Semi-Quantitative cutoffs | 300 ng/mL                                                                                                                                                                                                                                              | Same                                                                                                                                                                                                       |

#### 4. NON-CLINICAL PERFORMANCE EVALUATION

The non-clinical performance studies for Glucose HK Gen.3 and ONLINE DAT Methadone II are summarized below.

##### 4.1. Precision

##### 4.1.1. Repeatability and Intermediate Precision

Precision was determined using human samples and controls in accordance with the CLSI (Clinical and Laboratory Standards Institute) EP05-A3 requirements with repeatability (n = 84) and intermediate precision (2 aliquots per run, 2 runs per day, 21 days). Results for repeatability and intermediate precision were obtained on the **cobas c 703** analyzer.

**Table 4: Summary of GLUC3 Precision Results – Serum/Plasma**

| Repeatability          |              |            |        |
|------------------------|--------------|------------|--------|
| Sample                 | Mean (mg/dL) | SD (mg/dL) | CV (%) |
| PCCC1                  | 104          | 0.400      | 0.4    |
| PCCC2                  | 254          | 1.11       | 0.4    |
| Serum 1                | 4.018        | 0.0948     | 2.4    |
| Serum 2                | 67.9         | 0.371      | 0.5    |
| Serum 3                | 112          | 0.568      | 0.5    |
| Serum 4                | 389          | 1.48       | 0.4    |
| Serum 5                | 741          | 3.84       | 0.5    |
| Intermediate Precision |              |            |        |
| Sample                 | Mean (mg/dL) | SD (mg/dL) | CV (%) |
| PCCC1                  | 104          | 0.782      | 0.8    |
| PCCC2                  | 254          | 1.91       | 0.8    |
| Serum 1                | 4.04         | 0.104      | 2.6    |
| Serum 2                | 67.9         | 0.494      | 0.7    |
| Serum 3                | 112          | 1.07       | 1.0    |
| Serum 4                | 389          | 1.87       | 0.5    |
| Serum 5                | 741          | 5.05       | 0.7    |

**Table 5: Summary of GLUC3 Precision Results – Urine**

| <b>Repeatability</b>          |                     |                   |               |
|-------------------------------|---------------------|-------------------|---------------|
| <b>Sample</b>                 | <b>Mean (mg/dL)</b> | <b>SD (mg/dL)</b> | <b>CV (%)</b> |
| LiQ_UR1                       | 27.2                | 0.267             | 1.0           |
| LiQ_UR2                       | 290                 | 1.75              | 0.6           |
| Sample 1                      | 3.80                | 0.263             | 6.9           |
| Sample 2                      | 13.8                | 0.207             | 1.5           |
| Sample 3                      | 69.7                | 0.407             | 0.6           |
| Sample 4                      | 375                 | 1.802             | 0.5           |
| Sample 5                      | 730                 | 3.32              | 0.5           |
| <b>Intermediate Precision</b> |                     |                   |               |
| <b>Sample</b>                 | <b>Mean (mg/dL)</b> | <b>SD (mg/dL)</b> | <b>CV (%)</b> |
| LiQ_UR1                       | 27.2                | 0.297             | 1.1           |
| LiQ_UR2                       | 290                 | 2.41              | 0.8           |
| Sample 1                      | 3.80                | 0.263             | 6.9           |
| Sample 2                      | 13.8                | 0.225             | 1.6           |
| Sample 3                      | 69.7                | 0.568             | 0.8           |
| Sample 4                      | 375                 | 2.22              | 0.6           |
| Sample 5                      | 730                 | 4.09              | 0.6           |

**Table 6: Summary of GLUC3 Precision Results – CSF**

| <b>Repeatability</b>          |                     |                   |               |
|-------------------------------|---------------------|-------------------|---------------|
| <b>Sample</b>                 | <b>Mean (mg/dL)</b> | <b>SD (mg/dL)</b> | <b>CV (%)</b> |
| LiQ_CSF1                      | 57.3                | 0.303             | 0.5           |
| LiQ_CSF2                      | 29.6                | 0.231             | 0.8           |
| Sample 1                      | 4.47                | 0.254             | 5.7           |
| Sample 2                      | 37.8                | 0.234             | 0.6           |
| Sample 3                      | 70.8                | 0.335             | 0.5           |
| Sample 4                      | 375                 | 1.75              | 0.5           |
| Sample 5                      | 726                 | 3.08              | 0.4           |
| <b>Intermediate Precision</b> |                     |                   |               |
| <b>Sample</b>                 | <b>Mean (mg/dL)</b> | <b>SD (mg/dL)</b> | <b>CV (%)</b> |
| LiQ_CSF1                      | 57.3                | 0.368             | 0.6           |
| LiQ_CSF2                      | 29.6                | 0.254             | 0.9           |
| Sample 1                      | 4.47                | 0.265             | 5.9           |
| Sample 2                      | 37.8                | 0.335             | 0.9           |
| Sample 3                      | 70.8                | 0.402             | 0.6           |
| Sample 4                      | 375                 | 2.78              | 0.7           |
| Sample 5                      | 726                 | 4.23              | 0.6           |

**Table 7: Summary of MDN2 Precision Results, Repeatability and Intermediate Precision – Semi Quantitative**

| <b>Repeatability</b>          |                     |                   |               |
|-------------------------------|---------------------|-------------------|---------------|
| <b>Sample</b>                 | <b>Mean (ng/mL)</b> | <b>SD (ng/mL)</b> | <b>CV (%)</b> |
| Sample -100% (zero)           | 15.1                | 13.7              | 90.6          |
| Sample -75%                   | 113                 | 6.12              | 5.4           |
| Sample -50%                   | 170                 | 5.94              | 3.5           |
| DAT1N                         | 238                 | 6.82              | 2.9           |
| DATCN                         | 239                 | 7.69              | 3.2           |
| Cutoff                        | 295                 | 10.2              | 3.5           |
| DAT1P                         | 407                 | 13.2              | 3.2           |
| DATCP                         | 393                 | 12.1              | 3.1           |
| Sample +50%                   | 489                 | 23.2              | 4.7           |
| Sample +75%                   | 579                 | 20.3              | 3.5           |
| Sample +100%                  | 652                 | 28.7              | 4.4           |
| <b>Intermediate Precision</b> |                     |                   |               |
| <b>Sample</b>                 | <b>Mean (ng/mL)</b> | <b>SD (ng/mL)</b> | <b>CV (%)</b> |
| Sample -100% (zero)           | 15.3                | 16.1              | 105.0         |
| Sample -75%                   | 113                 | 9.97              | 8.8           |
| Sample -50%                   | 165                 | 12.3              | 7.5           |
| DAT1N                         | 242                 | 10.9              | 4.5           |
| DATCN                         | 239                 | 11.4              | 4.8           |
| Cutoff                        | 296                 | 22.5              | 7.6           |
| DAT1P                         | 407                 | 18.4              | 4.5           |
| DATCP                         | 401                 | 18.2              | 4.5           |
| Sample +50%                   | 505                 | 31.5              | 6.2           |
| Sample +75%                   | 579                 | 30.6              | 5.3           |
| Sample +100%                  | 635                 | 36.7              | 5.8           |

**Table 8: Summary of MDN2 Precision Results, Repeatability and Intermediate Precision – Qualitative**

| Reagent Lot: Lot 1  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
|---------------------|----------|------------|------------|----------------------|----------------------|
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |
| Reagent Lot: Lot 2  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |
| Reagent Lot: Lot 3  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |

**Table 9: Summary of MDN2 Precision Results, Repeatability and Intermediate Precision – Qualitative Plus**

| Reagent Lot: Lot 1  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
|---------------------|----------|------------|------------|----------------------|----------------------|
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |
| Reagent Lot: Lot 2  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |
| Reagent Lot: Lot 3  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |

**Table 10: Summary of MDN2 Precision Results, Repeatability and Intermediate Precision  
– Qualitative Plus Clinical**

| Reagent Lot: Lot 1  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
|---------------------|----------|------------|------------|----------------------|----------------------|
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |
| Reagent Lot: Lot 2  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |
| Reagent Lot: Lot 3  | 21 Days  | 2 Runs     | 2 Aliquots |                      |                      |
| <b>Specimen</b>     | <b>N</b> | <b>NEG</b> | <b>POS</b> | <b>Crossover (N)</b> | <b>Agreement (%)</b> |
| Sample -100% (zero) | 84       | 84         | 0          | 0                    | 100                  |
| Sample -75%         | 84       | 84         | 0          | 0                    | 100                  |
| Sample -50%         | 84       | 84         | 0          | 0                    | 100                  |
| DAT1N               | 84       | 84         | 0          | 0                    | 100                  |
| DATCN               | 84       | 84         | 0          | 0                    | 100                  |
| Cutoff              | 84       | n.a.       | n.a.       | n.a.                 | n.a.                 |
| DAT1P               | 84       | 0          | 84         | 0                    | 100                  |
| DATCP               | 84       | 0          | 84         | 0                    | 100                  |
| Sample +50%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +75%         | 84       | 0          | 84         | 0                    | 100                  |
| Sample +100%        | 84       | 0          | 84         | 0                    | 100                  |

## 4.2. Analytical Sensitivity

The Limit of Blank (LoB) of the Glucose HK Gen.3 assay on the **cobas c 703** analyzer was determined according to CLSI EP17-A2. The LoB is the highest observed measurement value for an analyte-free sample. The Limit of Blank was determined as the 95th percentile of measurements of blank samples.

The Limit of Detection (LoD) of the Glucose HK Gen.3 assay on the **cobas c 703** analyzer was determined according to CLSI EP17-A2. The LoD determines the lower limit for samples with analyte. The LoD was determined as the lowest amount of analyte in a sample that can be detected with a 95% probability.

The Limit of Quantitation (LoQ) of the Glucose HK Gen.3 assay was determined according to CLSI EP17-A2. LoQ determines the lowest amount of analyte that can be quantitatively determined with stated accuracy and stated experimental conditions. The LoQ was determined as the lowest concentration of analyte which can be quantified with a total error of no more than 20%.

**Table 11: Summary of GLUC3 Analytical Sensitivity Results**

| <b>Serum</b>          |                             |
|-----------------------|-----------------------------|
| Limit of Blank        | 0.350 mg/dL (0.0194 mmol/L) |
| Limit of Detection    | 0.487 mg/dL (0.0270 mmol/L) |
| Limit of Quantitation | 1.517 mg/dL (0.0842 mmol/L) |
| <b>Urine</b>          |                             |
| Limit of Blank        | 0.777 mg/dL (0.0431 mmol/L) |
| Limit of Detection    | 1.160 mg/dL (0.0644 mmol/L) |
| Limit of Quantitation | 1.160 mg/dL (0.0644 mmol/L) |
| <b>CSF</b>            |                             |
| Limit of Blank        | 0.337 mg/dL (0.0187 mmol/L) |
| Limit of Detection    | 0.506 mg/dL (0.0281 mmol/L) |
| Limit of Quantitation | 1.454 mg/dL (0.0807 mmol/L) |

### 4.3. Linearity/Assay Reportable Range

Linearity studies were conducted to demonstrate that measurements across the claimed measuring range for each parameter are linear. The studies were performed according to CLSI guideline EP06-Ed2. Linearity was confirmed for the following measuring ranges:

#### GLUC3

Serum, plasma, urine and CSF

0.11-41.6 mmol/L (2-750 mg/dL)

#### MDN2

Urine

39.3 to 2081 ng/mL

#### Summary of MDN2 Linearity Results According to CLSI EP06-ED2:

|                                 |        |
|---------------------------------|--------|
| Low end of linear range found:  | 37.0   |
| High end of linear range found: | 2255   |
| Intercept:                      | 0      |
| Slope:                          | 1.0040 |
| Pearson's r:                    | 0.9988 |
| R <sup>2</sup> :                | 0.991  |

### 4.4. Dilution

Post Dilution Check experiments were conducted to verify the automatic rerun function of the **cobas c 703** analytical unit. Post Dilution studies for GLUC3 confirmed the 1:2 dilution of samples via rerun function.

### 4.5. Endogenous Interferences

The effects of interference by endogenous substances on Glucose HK Gen.3 and ONLINE DAT Methadone II were determined on the **cobas c 703** analytical unit using, where applicable, human serum/plasma, urine, and CSF spiked with varying levels of interferent.

**Table 12: Summary of GLUC3 Endogenous Interferences – Serum/Plasma**

| <b>Potential Interferent</b>     | <b>No Interference up to</b> | <b>Observed Sample Conc (mmol/L)</b> |
|----------------------------------|------------------------------|--------------------------------------|
| Albumin [Level 1]                | 63.3 [g/L]                   | 2.17                                 |
| Albumin [Level 2]                | 62.3 [g/L]                   | 12.3                                 |
| Conjugated Bilirubin [Level 1]   | 64 [Index]                   | 2.17                                 |
| Conjugated Bilirubin [Level 2]   | 79 [Index]                   | 12.4                                 |
| Hemolysis [Level 1]              | 1213 [Index]                 | 2.14                                 |
| Hemolysis [Level 2]              | 1228 [Index]                 | 12.4                                 |
| Immunoglobulin G [Level 1]       | 65.1 [g/L]                   | 2.17                                 |
| Immunoglobulin G [Level 2]       | 65.4 [g/L]                   | 12.4                                 |
| Lipemia [Level 1]                | 1134 [Index]                 | 2.17                                 |
| Lipemia [Level 2]                | 1102 [Index]                 | 12.3                                 |
| Unconjugated Bilirubin [Level 1] | 77 [Index]                   | 2.18                                 |
| Unconjugated Bilirubin [Level 2] | 90 [Index]                   | 12.2                                 |

**Table 13: Summary of GLUC3 Endogenous Interferences – Urine**

| <b>Potential Interferent</b> | <b>No Interference up to</b> | <b>Observed Sample Conc (mmol/L)</b> |
|------------------------------|------------------------------|--------------------------------------|
| Albumin [Level 1]            | 2.70 [g/L]                   | 2.28                                 |
| Albumin [Level 2]            | 3.10 [g/L]                   | 12.5                                 |
| Calcium [Level 1]            | 12.6 [mmol/L]                | 2.29                                 |
| Calcium [Level 2]            | 13.5 [mmol/L]                | 12.5                                 |
| Citrate [Level 1]            | 12.0 [mmol/L]                | 2.28                                 |
| Citrate [Level 2]            | 12.2 [mmol/L]                | 12.5                                 |
| Creatinine [Level 1]         | 91.9 [mmol/L]                | 2.28                                 |
| Creatinine [Level 2]         | 89.7 [mmol/L]                | 12.5                                 |
| Hemolysis [Level 1]          | 946 [Index]                  | 2.31                                 |
| Hemolysis [Level 2]          | 876 [Index]                  | 12.1                                 |
| Immunoglobulin G [Level 1]   | 1.10 [g/L]                   | 2.29                                 |
| Immunoglobulin G [Level 2]   | 1.30 [g/L]                   | 12.4                                 |
| Magnesium [Level 1]          | 27.3 [mmol/L]                | 2.29                                 |
| Magnesium [Level 2]          | 28.9 [mmol/L]                | 12.5                                 |
| Oxalate [Level 1]            | 2.70 [mmol/L]                | 2.27                                 |
| Oxalate [Level 2]            | 2.70 [mmol/L]                | 12.5                                 |
| Phosphate [Level 1]          | 139 [mmol/L]                 | 2.29                                 |

|                        |                |      |
|------------------------|----------------|------|
| Phosphate [Level 2]    | 137 [mmol/L]   | 12.5 |
| Urea [Level 1]         | 1836 [mmol/L]  | 2.27 |
| Urea [Level 2]         | 1825 [mmol/L]  | 12.5 |
| Uric acid [Level 1]    | 6.00 [mmol/L]  | 2.30 |
| Uric acid [Level 2]    | 7.50 [mmol/L]  | 12.5 |
| Urobilinogen [Level 1] | 0.250 [mmol/L] | 2.30 |
| Urobilinogen [Level 2] | 0.250 [mmol/L] | 12.3 |

**Table 14: Summary of GLUC3 Endogenous Interferences – CSF**

| Potential Interferent          | No Interference up to | Observed Sample Conc (mmol/L) |
|--------------------------------|-----------------------|-------------------------------|
| Conjugated Bilirubin [Level 1] | 75 [Index]            | 2.21                          |
| Conjugated Bilirubin [Level 2] | 66 [Index]            | 12.3                          |
| Hemolysis [Level 1]            | 1201 [Index]          | 2.21                          |
| Hemolysis [Level 2]            | 1259 [Index]          | 12.2                          |

**Table 15: Summary of MDN2 Endogenous Interferences – Urine**

| Compound                  | Concentration    |
|---------------------------|------------------|
| Acetone                   | 1000 mg/dL       |
| Ascorbic acid             | 1500 mg/dL       |
| Albumin                   | 500 mg/dL        |
| Bilirubin                 | 25 mg/dL         |
| Calcium                   | 133 mg/dL        |
| Creatinine                | 500 mg/dL        |
| Ethanol                   | 1000 mg/dL       |
| Glucose                   | 2000 mg/dL       |
| Hemoglobin                | 750 mg/dL        |
| IgG                       | 110 mg/dL        |
| Magnesium                 | 238 mg/dL        |
| NaCl                      | 5800 mg/dL       |
| Oxalate                   | 200 mg/dL        |
| pH                        | 3.9–9.1          |
| Phosphate                 | 2028 mg/dL       |
| Sodium citrate, dihydrate | 323.51 mg/dL     |
| Specific Gravity          | 1.001–1.035 g/mL |
| Urea                      | 6000 mg/dL       |
| Uric Acid                 | 100.86 mg/dL     |
| Urobilinogen              | 14.82 mg/dL      |

#### 4.6. Exogenous Interferences – Drugs

Drug Interference studies were conducted to evaluate drugs for potential interference with Glucose HK Gen.3 and ONLINE TDM Methadone II measured on the **cobas c 703** analytical unit. The following interference claims were verified:

**Table 16: Drug Interferences GLUC3, Level 1 – Serum/Plasma**

| Drug                 | Drug Conc 1 [mg/L] | Analyte Mean Reference [mmol/L] | Analyte Mean Conc of Spiked Sample [mmol/L] | Recovery [%] |
|----------------------|--------------------|---------------------------------|---------------------------------------------|--------------|
| N-Acetylcysteine     | 150                | 2.21                            | 2.22                                        | 100.5        |
| Acetylsalicylic acid | 30                 | 2.21                            | 2.21                                        | 100.0        |
| Ampicillin-Na        | 75                 | 2.21                            | 2.21                                        | 100.0        |
| Ascorbic acid        | 52.5               | 2.21                            | 2.21                                        | 100.0        |
| Cefoxitin            | 750                | 2.21                            | 2.21                                        | 100.1        |
| Doxycyclin           | 18                 | 2.21                            | 2.21                                        | 99.7         |
| Heparin              | 3300 IU/L          | 2.21                            | 2.22                                        | 100.2        |
| Levodopa             | 7.5                | 2.21                            | 2.22                                        | 100.3        |
| Methyldopa           | 22.5               | 2.21                            | 2.22                                        | 100.3        |
| Metronidazole        | 123                | 2.21                            | 2.23                                        | 100.6        |
| Rifampicin           | 48                 | 2.21                            | 2.22                                        | 100.2        |
| Acetaminophen        | 156                | 2.19                            | 2.18                                        | 99.6         |
| Cyclosporine         | 1.8                | 2.19                            | 2.19                                        | 99.9         |
| Ibuprofen            | 219                | 2.19                            | 2.18                                        | 99.7         |
| Theophylline         | 60                 | 2.19                            | 2.19                                        | 100.0        |
| Phenylbutazone       | 321                | 2.15                            | 2.16                                        | 100.4        |

**Table 17: Drug Interferences GLUC3, Level 1 – Urine**

| Drug                | Drug Conc 1 [mg/L] | Analyte Mean Reference [mmol/L] | Analyte Mean Conc of Spiked Sample [mmol/L] | Recovery [%] |
|---------------------|--------------------|---------------------------------|---------------------------------------------|--------------|
| Acetaminophen       | 3000               | 2.29                            | 2.27                                        | 99.2         |
| N-Acetylcysteine    | 10                 | 2.29                            | 2.27                                        | 99.5         |
| Ascorbic acid       | 4000               | 2.29                            | 2.28                                        | 99.7         |
| Cefoxitin           | 12000              | 2.29                            | 2.26                                        | 99.0         |
| Gentamycine sulfate | 400                | 2.29                            | 2.26                                        | 99.0         |
| Levodopa            | 1000               | 2.29                            | 2.29                                        | 100.1        |
| Methyldopa          | 2000               | 2.29                            | 2.28                                        | 99.9         |
| Ofloxacin           | 900                | 2.29                            | 2.21                                        | 96.9         |

|                  |                           |                                        |                                                    |                     |
|------------------|---------------------------|----------------------------------------|----------------------------------------------------|---------------------|
| Ibuprofen        | 4000                      | 2.13                                   | 2.19                                               | 103.1               |
| Phenazopyridine  | 300                       | 2.13                                   | 2.12                                               | 99.6                |
| Salicyluric acid | 6000                      | 2.13                                   | 5.01                                               | 235.3               |
| Tetracycline     | 300                       | 2.26                                   | 1.98                                               | 87.9                |
| <b>Drug</b>      | <b>Drug Conc 2 [mg/L]</b> | <b>Analyte Mean Reference [mmol/L]</b> | <b>Analyte Mean Conc of Spiked Sample [mmol/L]</b> | <b>Recovery [%]</b> |
| Salicyluric acid | 100                       | 2.27                                   | 2.34                                               | 103.0               |
| Tetracycline     | 100                       | 2.21                                   | 2.21                                               | 100.0               |

**Table 18: Drug Interferences GLUC3, Level 2 – Urine**

| <b>Drug</b>         | <b>Drug Conc 1 [mg/L]</b> | <b>Analyte Mean Reference [mmol/L]</b> | <b>Analyte Mean Conc of Spiked Sample [mmol/L]</b> | <b>Recovery [%]</b> |
|---------------------|---------------------------|----------------------------------------|----------------------------------------------------|---------------------|
| Acetaminophen       | 3000                      | 12.2                                   | 12.1                                               | 99.2                |
| N-Acetylcysteine    | 10                        | 12.2                                   | 12.2                                               | 99.7                |
| Ascorbic acid       | 4000                      | 12.2                                   | 12.2                                               | 99.8                |
| Cefoxitin           | 12000                     | 12.2                                   | 12.2                                               | 99.8                |
| Gentamycine sulfate | 400                       | 12.2                                   | 12.2                                               | 100.2               |
| Levodopa            | 1000                      | 12.2                                   | 12.2                                               | 100.0               |
| Methyldopa          | 2000                      | 12.2                                   | 12.2                                               | 99.7                |
| Ofloxacin           | 900                       | 12.2                                   | 12.2                                               | 99.5                |
| Ibuprofen           | 4000                      | 11.3                                   | 11.8                                               | 103.9               |
| Phenazopyridine     | 300                       | 11.3                                   | 11.7                                               | 103.2               |
| Salicyluric acid    | 6000                      | 11.3                                   | 14.5                                               | 127.9               |
| Tetracycline        | 300                       | 11.6                                   | 11.5                                               | 99.7                |
| Salicyluric acid    | 100                       | 12.2                                   | 12.2                                               | 100.7               |

**Table 19: Drug Interferences MDN2, Semi-Quantitative (MD3S0); Qualitative (MD3Q0); Qualitative Plus Clinical (MD3QC); Qualitative Plus (MD3QP) – Urine**

| Reagent Lot: Lot 1      |                       |              |              |
|-------------------------|-----------------------|--------------|--------------|
| Compound                | Concentration (ng/mL) | Sample -25%  | Sample +25%  |
| Acetaminophen           | 3000000               | No crossover | No crossover |
| Acetyl cysteine         | 10000                 | No crossover | No crossover |
| Acetylsalicylic acid    | 100000                | No crossover | No crossover |
| Aminopyrine             | 100000                | No crossover | No crossover |
| Amitriptyline           | 100000                | No crossover | No crossover |
| Ampicillin              | 100000                | No crossover | No crossover |
| Ascorbic acid           | 4000000               | No crossover | No crossover |
| Aspartame               | 100000                | No crossover | No crossover |
| Atropine                | 100000                | No crossover | No crossover |
| Benzocaine              | 100000                | No crossover | No crossover |
| Caffeine                | 100000                | No crossover | No crossover |
| Calcium dobesilate      | 100000                | No crossover | No crossover |
| Calcium hypochlorite    | 100000                | No crossover | No crossover |
| Carbamazepine           | 100000                | No crossover | No crossover |
| Cefoxitin               | 12000000              | No crossover | No crossover |
| Chloroquine             | 100000                | No crossover | No crossover |
| Chlorpheniramine        | 100000                | No crossover | No crossover |
| Cotinine                | 100000                | No crossover | No crossover |
| Cyclobenzaprine         | 100000                | No crossover | No crossover |
| Cyproheptadine          | 100000                | No crossover | No crossover |
| d-Ephedrine             | 100000                | No crossover | No crossover |
| Desipramine             | 100000                | No crossover | No crossover |
| Diphenylhydantoin       | 100000                | No crossover | No crossover |
| dl-Ephedrine            | 100000                | No crossover | No crossover |
| Dopamine                | 100000                | No crossover | No crossover |
| Doxepin                 | 100000                | No crossover | No crossover |
| Doxylamine              | 100000                | No crossover | No crossover |
| d-Phenylpropanolamine   | 100000                | No crossover | No crossover |
| d-Pseudoephedrine       | 100000                | No crossover | No crossover |
| Erythromycin            | 100000                | No crossover | No crossover |
| Estriol                 | 100000                | No crossover | No crossover |
| Fenoprofen              | 100000                | No crossover | No crossover |
| Fluoxetine              | 100000                | No crossover | No crossover |
| Furosemide              | 100000                | No crossover | No crossover |
| Gentamicin sulfate      | 400000                | No crossover | No crossover |
| Gentisic acid           | 100000                | No crossover | No crossover |
| Guaiacol glycerol ether | 100000                | No crossover | No crossover |
| Haloperidol             | 100000                | No crossover | No crossover |
| Hydrochlorothiazide     | 100000                | No crossover | No crossover |
| Ibuprofen               | 4000000               | No crossover | No crossover |
| Isoproterenol           | 100000                | No crossover | No crossover |
| Ketamine                | 100000                | No crossover | No crossover |

|                      |                              |                    |                    |
|----------------------|------------------------------|--------------------|--------------------|
| I-Ephedrine          | 100000                       | No crossover       | No crossover       |
| Levodopa             | 1000000                      | No crossover       | No crossover       |
| Lidocaine            | 100000                       | No crossover       | No crossover       |
| I-Norpseudoephedrine | 100000                       | No crossover       | No crossover       |
| Maprotiline          | 100000                       | No crossover       | No crossover       |
| Melanin              | 100000                       | No crossover       | No crossover       |
| Methyldopa           | 2000000                      | No crossover       | No crossover       |
| Mianserin            | 100000                       | No crossover       | No crossover       |
| Naloxone             | 100000                       | No crossover       | No crossover       |
| Naltrexone           | 100000                       | No crossover       | No crossover       |
| Naproxen             | 100000                       | No crossover       | No crossover       |
| Niacinamide          | 100000                       | No crossover       | No crossover       |
| Nicotine             | 100000                       | No crossover       | No crossover       |
| Nordoxepin           | 100000                       | No crossover       | No crossover       |
| Norethindrone        | 100000                       | No crossover       | No crossover       |
| Ofloxacin            | 90000                        | No crossover       | No crossover       |
| Penicillin G         | 100000                       | No crossover       | No crossover       |
| Phenazopyridine      | 300000                       | No crossover       | No crossover       |
| Phenethylamine       | 100000                       | No crossover       | No crossover       |
| Phenothiazine        | 100000                       | No crossover       | No crossover       |
| Phenylbutazone       | 100000                       | No crossover       | No crossover       |
| Phenylpropanolamine  | 100000                       | No crossover       | No crossover       |
| Procaine             | 100000                       | No crossover       | No crossover       |
| Quinidine            | 100000                       | No crossover       | No crossover       |
| Quinine              | 100000                       | No crossover       | No crossover       |
| Salicylic acid       | 6000000                      | No crossover       | No crossover       |
| Sulindac             | 100000                       | No crossover       | No crossover       |
| Tetracycline         | 300000                       | No crossover       | No crossover       |
| Tetrahydrozoline     | 100000                       | No crossover       | No crossover       |
| Tramadol             | 20000                        | No crossover       | No crossover       |
| Trifluoperazine      | 100000                       | No crossover       | No crossover       |
| Tyramine             | 100000                       | No crossover       | No crossover       |
| Reagent Lot: Lot 2   |                              |                    |                    |
| <b>Compound</b>      | <b>Concentration (ng/mL)</b> | <b>Sample -25%</b> | <b>Sample +25%</b> |
| Amobarbital          | 100000                       | No crossover       | No crossover       |
| Benzoylcegonine      | 100000                       | No crossover       | No crossover       |
| Benzphetamine        | 100000                       | No crossover       | No crossover       |
| Butabarbital         | 100000                       | No crossover       | No crossover       |
| Chlordiazepoxide     | 100000                       | No crossover       | No crossover       |
| Cocaine              | 100000                       | No crossover       | No crossover       |
| Codeine              | 100000                       | No crossover       | No crossover       |
| d-Amphetamine        | 100000                       | No crossover       | No crossover       |
| Dextrometorphan      | 100000                       | No crossover       | No crossover       |
| Dextropropoxyphene   | 100000                       | No crossover       | No crossover       |
| Diazepam             | 100000                       | No crossover       | No crossover       |
| Diphenhydramine      | 100000                       | No crossover       | No crossover       |
| Disopyramide         | 100000                       | No crossover       | No crossover       |
| d-Methamphetamine    | 100000                       | No crossover       | No crossover       |

|                            |                              |                    |                    |
|----------------------------|------------------------------|--------------------|--------------------|
| Ecgonine                   | 100000                       | No crossover       | No crossover       |
| Ecgonine methyl ester      | 100000                       | No crossover       | No crossover       |
| EDDP                       | 100000                       | No crossover       | No crossover       |
| EMDP                       | 100000                       | No crossover       | No crossover       |
| Epinephrine                | 100000                       | No crossover       | No crossover       |
| Glutethimide               | 100000                       | No crossover       | No crossover       |
| Imipramine                 | 100000                       | No crossover       | No crossover       |
| l-Amphetamine              | 100000                       | No crossover       | No crossover       |
| l-Methamphetamine          | 100000                       | No crossover       | No crossover       |
| l-Pseudoephedrine          | 100000                       | No crossover       | No crossover       |
| LSD                        | 100000                       | No crossover       | No crossover       |
| MDA                        | 100000                       | No crossover       | No crossover       |
| MDMA                       | 100000                       | No crossover       | No crossover       |
| Meperidine                 | 100000                       | No crossover       | No crossover       |
| Methaqualone               | 100000                       | No crossover       | No crossover       |
| Methylphenidate            | 100000                       | No crossover       | No crossover       |
| Morphine                   | 100000                       | No crossover       | No crossover       |
| Nordiazepam                | 100000                       | No crossover       | No crossover       |
| Nortriptyline              | 100000                       | No crossover       | No crossover       |
| Orphenadrine               | 100000                       | No crossover       | No crossover       |
| Oxazepam                   | 100000                       | No crossover       | No crossover       |
| Pentobarbital              | 100000                       | No crossover       | No crossover       |
| Perphenazine               | 100000                       | No crossover       | No crossover       |
| Phencyclidine              | 100000                       | No crossover       | No crossover       |
| Phenobarbital              | 100000                       | No crossover       | No crossover       |
| Phentermine                | 100000                       | No crossover       | No crossover       |
| Protriptyline              | 100000                       | No crossover       | No crossover       |
| Quetiapine-Carboxylic acid | 500000                       | No crossover       | No crossover       |
| Quetiapine-Fumarat         | 750000                       | No crossover       | No crossover       |
| Quetiapine-Sulfoxid        | 500000                       | No crossover       | No crossover       |
| Secobarbital               | 100000                       | No crossover       | No crossover       |
| THC-9-carboxylic acid      | 100000                       | No crossover       | No crossover       |
| Verapamil                  | 100000                       | No crossover       | No crossover       |
| Reagent Lot: Lot 6         |                              |                    |                    |
| <b>Compound</b>            | <b>Concentration (ng/mL)</b> | <b>Sample -25%</b> | <b>Sample +25%</b> |
| Disopyramide               | 1000000                      | No crossover       | No crossover       |

#### 4.7. Cross Reactivity

The effects of interference by endogenous interferences were conducted on one **cobas c 703** using one lot, one human sample per concentration level, in one run,  $\geq 2$  replicates per sample.

**Table 20: Cross Reactivity Results MDN2**

| Cross Reactant                         | Cross Reactivity (%) |
|----------------------------------------|----------------------|
| Lu AA34443                             | 7.66                 |
| Vortioxetine                           | 4.59                 |
| Cyamemazine                            | 4.12                 |
| Methotrimeprazine<br>(Levomepromazine) | 3.47                 |
| Chlorpromazine                         | 0.97                 |
| Thiothixene                            | 0.39                 |
| Clomipramine                           | 0.17                 |
| Thioridazine                           | 0.15                 |
| Promazine                              | 0.14                 |
| Promethazine                           | 0.074                |
| Trimipramine                           | 0.052                |
| Chlorprothixene                        | 0.045                |

#### 4.8. Sample Matrix Comparison

The recovery of analyte values in the presence of anticoagulants with the Glucose HK Gen.3 assay was determined on the **cobas c 703** analytical unit by comparing values obtained from samples drawn into serum and plasma collection tubes. The following results were obtained.

**Table 21: Summary of Matrix Comparison Passing/Bablok Results**

| Anticoagulant                       | Slope | Intercept (mg/dL) | Correlation Coefficient | Concentration of Samples (mg/dL) |
|-------------------------------------|-------|-------------------|-------------------------|----------------------------------|
| Serum vs. Serum/gel separation tube | 1.007 | -0.432            | 1.000                   | 3.17-737                         |
| Serum vs. K2-EDTA plasma            | 1.003 | -0.0771           | 0.999                   | 3.17-737                         |

| Anticoagulant                                      | Slope | Intercept (mg/dL) | Correlation Coefficient | Concentration of Samples (mg/dL) |
|----------------------------------------------------|-------|-------------------|-------------------------|----------------------------------|
| Serum vs. Li-Heparin plasma                        | 1.031 | -1.59             | 0.999                   | 3.17-737                         |
| Serum vs. NaF/K-Oxalate plasma                     | 1.025 | -1.25             | 1.000                   | 3.17-737                         |
| Serum vs. NaF/Na <sub>2</sub> -EDTA plasma         | 1.037 | -1.78             | 0.999                   | 3.17-737                         |
| Serum vs. KF/Na <sub>2</sub> -EDTA plasma          | 1.028 | -0.587            | 0.999                   | 3.17-737                         |
| Serum vs. NaF/Citrate/Na <sub>2</sub> -EDTA plasma | 1.005 | 1.87              | 0.999                   | 2.88-730                         |

#### 4.9. Method Comparison to Predicate

Method Comparison experiments were performed for all sample types using the Glucose HK Gen.3 assay on the **cobas c 703** versus the Glucose HK Gen.3 assay on the **cobas c 503** to assess the bias between the two analytical units.

The results can be found below:

**Table 22: Summary of GLUC3 Method Comparison Data – Serum/Plasma**

| Quality Characteristic                     | Result     |
|--------------------------------------------|------------|
| Slope (Passing/Bablok)                     | 0.995      |
| Intercept (Passing/Bablok)                 | -0.0968    |
| Bias (%) at medical decision point 1       | -0.6       |
| Coefficient of correlation (Pearson (r))   | 1.000      |
| Slope (Linear Regression)                  | 0.999      |
| Intercept (Linear Regression)              | -0.216     |
| Coefficient of correlation (Kendall (Tau)) | 0.990      |
| Sample concentration                       | 3.60 - 724 |
| Number of samples (n)                      | 74         |

**Table 23: Summary of GLUC3 Method Comparison Data – Urine**

| <b>Quality Characteristic</b>              | <b>Result</b> |
|--------------------------------------------|---------------|
| Slope (Passing/Bablok)                     | 0.998         |
| Intercept (Passing/Bablok)                 | 0.209         |
| Bias (%) at medical decision point 1       | 0.9           |
| Coefficient of correlation (Pearson (r))   | 1.000         |
| Slope (Linear Regression)                  | 1.001         |
| Intercept (Linear Regression)              | 0.214         |
| Coefficient of correlation (Kendall (Tau)) | 0.950         |
| Sample concentration                       | 2.04 - 730    |
| Number of samples (n)                      | 67            |

**Table 24: Summary of GLUC3 Method Comparison Data – CSF**

| <b>Quality Characteristic</b>              | <b>Result</b> |
|--------------------------------------------|---------------|
| Slope (Passing/Bablok)                     | 0.987         |
| Intercept (Passing/Bablok)                 | -0.234        |
| Bias (%) at medical decision point 1       | -1.9          |
| Coefficient of correlation (Pearson (r))   | 1.000         |
| Slope (Linear Regression)                  | 0.989         |
| Intercept (Linear Regression)              | -0.259        |
| Coefficient of correlation (Kendall (Tau)) | 0.984         |
| Sample concentration                       | 2.78 - 730    |
| Number of samples (n)                      | 75            |

87 urine samples, obtained from a clinical laboratory, where they screened negative in a drug test panel, were evaluated with the Methadone II assay. 97.7 % of these normal urines were negative relative to the 300 ng/mL cutoff. 79 urine samples obtained from a clinical laboratory, where they screened preliminary positive with a commercially available immunoassay, were subsequently confirmed by GC-MS and were evaluated with the Methadone II assay. The following results were obtained with the Methadone II assay on the **cobas c 703** analyzer relative to the GC-MS values.

**Table 25: Summary of MDN2 Method Comparison versus GC/MS – Semi-Quantitative**

|                      |   | GC-MS values (ng/mL) |                     |         |                  |
|----------------------|---|----------------------|---------------------|---------|------------------|
|                      |   | Negative samples     | Near cutoff samples |         | Positive samples |
|                      |   | 0-< 150              | 150-< 300           | 300-450 | > 450            |
| cobas c 703 analyzer | + | 0                    | 2                   | 15      | 62               |
|                      | - | 59                   | 26                  | 2       | 0                |

Clinical samples were evaluated with this assay on a **cobas c 703** analyzer and on a **cobas c 503** analyzer. 50 urine samples screened negative for methadone on a **cobas c 503** analyzer were evaluated with the Methadone II assay on a **cobas c 703** analyzer. 100 % of these normal urines were negative on both the **cobas c 703** analyzer and the **cobas c 503** analyzer. 50 urine samples, obtained from a clinical laboratory where they screened preliminary positive with a commercially available immunoassay were subsequently confirmed by GC-MS and evaluated with the Methadone II assay on a **cobas c 703** analyzer. 100 % of the samples were positive on both the **cobas c 503** analyzer and the **cobas c 703** analyzer.

**Table 26: Summary of MDN2 Method Comparison cobas c 703 versus cobas c 503 – Semi-Quantitative**

| Methadone II correlation (cutoff = 300 ng/mL) |   |                      |    |
|-----------------------------------------------|---|----------------------|----|
|                                               |   | cobas c 503 analyzer |    |
|                                               |   | +                    | -  |
| cobas c 703 analyzer                          | + | 50                   | 0  |
|                                               | - | 0                    | 50 |

#### 4.10. Stability

The stability studies and acceptance criteria have been reviewed and found to be acceptable. The stability data supports Roche Diagnostic’s claims as reported in the package labeling.

### 5. ADDITIONAL INFORMATION

The Glucose HK Gen.3 assay is intended to be used with the following:

- Calibrator f.a.s.
- PreciControl ClinChem Multi 1
- PreciControl ClinChem Multi 2
- Diluent NaCl 9 %

The ONLINE DAT Methadone II assay is intended to be used with the following:

- Preciset DAT Plus I
- C.f.a.s. DAT Qualitative Plus
- C.f.a.s. DAT Qualitative Plus Clinical
- Control Set DAT I
- Control Set DAT Clinical

### 6. CONCLUSIONS

The analytical performance data for Glucose HK Gen.3 and ONLINE DAT Methadone II on **cobas pro** integrated solutions support a substantial equivalence decision.