

Lot Number: 6860

Manufacture Date: 2016-12-06

Shelf-Life/Expiration Date: 2017-12-31

Product Name: HbA1c (GHb) Controls Kit, 400µl (Levels I & II)

REF: 01-04-0015

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Store lyophilized material In original container at 2-8°C up to the expiration

date. See Package Insert for instructions on storage of reconstituted, aliquot,

and diluted materials.

Intended Use: Hemoglobin A1c (HbA1c) Controls are intended for use as a quality control material to monitor the precision of laboratory testing procedures for HbA1c quantitation. For in vitro use only.

Method of Analysis: Performance Testing in Comparison to Reference Materials

Standard: HPLC performance validation in comparison to reference standards.

Result:

| | | Contro | <u>Level I</u> | Lot# | 861 | Control | <u>Level II L</u> | .ot # 6 | 862 |
|----------------|-------|--------|----------------|------|-----|---------|-------------------|---------|------|
| | Units | X | | RNG |] | X | [| RNG | |
| Premier Hb9210 | | | | | | | | | |
| HbA1c (NGSP) | % | 5.9 | 5.6 | - | 6.2 | 10.4 | 9.8 | | 11.0 |
| HbA1c (IFCC) | S.I.* | 41 | 38 | • | 44 | 90 | 83 | _ | 97 |
| PDQ | | | | | _ | | | | |
| HbA1c (NGSP) | % | 5.9 | 5.6 | - | 6.2 | 10.4 | 9.8 | - | 11.0 |
| HbA1c (IFCC) | S.I.* | 41 | 38 | - | 44 | 90 | 83_ | - | 97 |
| Ultra2 | | - | | | | | | | |
| HbA1c (NGSP) | % | 6.1 | 5.8 | 4 | 6.4 | 10.6 | 10.0 | - | 11.2 |
| HbA1c (IFCC) | S.I.* | 43 | 40 | - | 46 | 92 | 85 | - | 99 |

Traceability to International Reference Standards

Standard: Value assignment to NGSP and IFCC reference materials.

Results: Value assignment to NGSP and IFCC reference materials. Meets specification

Testing to Confirm Non-Reactivity for Common Pathogens

Standard: Verify test results or confirm certification that source material have been tested and found non-reactive for common pathogens, including HBsAG, HIV-1, HIV-2, and HCV.

Results: Testing certification confirmed to be negative/non-reactive for common pathogens.

Approval

Quality Manager

Date:



Lot Number: 6850

Manufacture Date: 2016-12-06

Shelf-Life/Expiration Date: 2017-12-31

Product Name: HbA1c (GHb) Calibrator Kit, 400µl (Levels 1 & 2)

REF: 01-04-0018

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Store lyophilized material in original container at 2-8°C up to the expiration

date. See Package Insert for instructions on storage of reconstituted, aliquot,

and diluted materials.

Intended Use: Hemoglobin A1c (HbA1c) Calibrators are intended for the calibration of quantitative

HbA1c affinity assays. For in vitro use only.

Method of Analysis: Performance Testing in Comparison to Reference Materials

Standard: HPLC performance validation in comparison to reference standards.

Result:

| Trinity Biotech H | bA1c (GHb) Calibrate | or Kit Lot # 6850 | |
|-------------------|----------------------|----------------------------|----------------------------|
| | Units | Calibrator 1 Lot # 6851 | Calibrator 2 Lot # 6852 |
| Premier Hb9210 | | | |
| HbA1c (NGSP) | % | 5.2 | 12.1 |
| HbA1c (IFCC) | mMol HbA1c/Mol Hb | 33 | 109 |
| PDQ | | | |
| HbA1c (NGSP) | % | 5.2 | 12.1 |
| HbA1c (IFCC) | mMol HbA1c/Mol Hb | 33 | 109 |
| Ultra2 | | | |
| HbA1c (NGSP) | % | 5.4 | 12.2 |
| HbA1c (IFCC) | mMol HbA1c/Mol Hb | 36 | 110 |

Traceability to International Reference Standards

Standard: Value assignment to NGSP and IFCC reference materials.

Results: Value assignment to NGSP and IFCC reference materials. Meets specification

Testing to Confirm Non-Reactivity for Common Pathogens

Standard: Verify test results or confirm certification that source material have been tested and found non-reactive for common pathogens, including HBsAG, HIV-1, HIV-2, and HCV.

Results: Testing certification confirmed to be negative/non-reactive for common pathogens.

Approval

Quality Manager:

Date

2 21 2016



Manufacture Date: 2015-10-20 Shelf-Life/Expiration Date: 2017-10-31 Lot Number: 6110

Product Name: FASC Position Marker Kit

REF 01-04-0042

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Store lyophilized material in original container at 2-8°C up to the expiration

date. See Package Insert for instructions on storage of reconstituted, aliquot,

and diluted materials.

Intended Use: FASC Position Marker is intended for in vitro diagnostic use in laboratory quality control program for the qualitative identification of FASC hemoglobin fractions.

Method of Analysis: Performance Testing

Standard: HPLC performance validation.

Result:

| Hemoglobin Fraction | RT | Retention Time Resolution M High Resolution | RT | Retention Time GeneSys M High Resolution |
|------------------------|-------|---|-------|--|
| F | 1.802 | At least 1.2 minutes | 2.023 | At least 1.2 minutes |
| A | 4.174 | At least 1.3 minutes after F | 3.788 | At least 1.3 minutes after F |
| S | 5.786 | At least 1.3 minutes after A | 5.300 | At least 1.3 minutes after A |
| С | 7.755 | At least 7.0 minutes | 6.997 | At least 6.8 minutes |

Testing to Confirm Non-Reactivity for Common Pathogens

Standard: Verify test results or confirm certification that source material have been tested and found non-reactive for common pathogens, including HBsAG, HBc, HIV-1&2, HCV, HTLV 1&2, HIV 1&2-RNA, Syphilis, HBV-DNA.

Results: Testing certification confirmed to be negative/non-reactive for common pathogens,

Approval

Quality Managers

Dale: 10/20/2015



Lot Number: 7140

Manufacture Date: 2017-01-31

Shelf-Life/Expiration Date: 2019-01-31

Product Name: A2+F Control Material Kit

REF 01-04-0043

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Store lyophilized material in original container at 2-8°C up to the expiration

date. See Package Insert for instructions on storage of reconstituted, aliquot,

and diluted materials.

Intended Use: A2+F Control Material is intended for in vitro diagnostic use in laboratory quality control

program for the quantitation of HbA2 and HbF.

Method of Analysis: Performance Testing

Standard: HPLC performance validation.

Result:

Resolution™ Quick Scan Assay

| Level 1 Control: %F | Mean: 1.9 | Range: 1.5 - 2.3 | Lot# 7141 |
|---------------------|-----------|------------------|-----------|
| %A2 | Mean: 2.2 | Hanne: 19-26 | FOIR 1141 |

%A2 Mean: 2,2 Range: 1.8 – 2.6

Level 2 Control: %F Mean: 7.8 Range: 6.2 - 9.4 Lot# 7142

%A2 Mean: 5.9 Range: 4.7 - 7.1 %S Mean: 31.5 Range: 25.2 - 37.8

Resolution[™] High Resolution Assay

| Level 1 Control: %F | Mean: 2.1 | Range: 1.7 - 2.5 | Lot# 7141 |
|---------------------|-----------|------------------|------------|
| ₽/_ \ . 'Q | Monnin | B | COI# / 141 |

%A2 Mean: 2.4 Range: 1.9 - 2.9

Level 2 Control: %F Mean: 7.7 Range: 6.2 - 9.2 Lot# 7142

%A2 Mean: 6.2 Range: 5.0 - 7.4 %S Mean: 31.3 Range: 25.0 - 37.6

GeneSys™ High Resolution Assay

| Level 1 Control: %F | Mean: 2.1 | Range: 1.7 - 2.5 | Lot# 7141 |
|---------------------|----------------|------------------|-----------|
| D/ A D | Adam a company | | COM / 14! |

%A2 Mean: 2.4 Range: 1.9 - 2.9

Level 2 Control: %F Mean: 7.7 Range: 6.2 - 9.2 Lot# 7142

%A2 Mean: 6.2 Range: 5.0 - 7.4

Testing to Confirm Non-Reactivity for Common Pathogens

Standard: Verify test results or confirm certification that source material have been tested and found non-reactive for common pathogens, including HBsAG, HBc, HIV-1&2, HCV, HTLV 1&2, HIV 1&2-RNA, Syphilis, HBV-DNA.

Testing certification confirmed to be negative/non-reactive for common pathogens. Results:

Approval

Quality Manager:

4/6/2017

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Rev 5, 2016-01-18



Product Name: TRI-stat Liquid Controls Kit

REF: 03-06-0011 Lot Number: 7220

Production Date: 2017-02-02 Expiration Date: 2018-03-31

Manufactured/Distributed By: Trinity Biotech, Kansas City, Missouri, USA

Storage Requirements: Store liquid material in original container at 2-8°C up to the expiration date. See Package Insert for instructions on usage and stability.

Intended Use: Tri-stat Liquid Controls are intended for the control of the quantitative HbA1c affinity assay on the Tri-stat Analyzer only. No other control materials may be used with the Tri-stat and will not perform correctly. This control may not be used with other systems. For in vitro use only.

Method of Analysis: Performance Testing in Comparison to Reference Materials Standard: HPLC performance validation in comparison to reference standards. Result:

| | | Contro | l Level l | Lot#7 | 7221 | Control | Level II L | ot # 7 | 222 |
|--------------|-------|--------|-----------|-------|------|---------|------------|--------|------|
| | Units | Ī | | RNG | | ST. | ſ | RNG | 7 |
| HbA1c (NGSP) | % | 7.1 | 6.3 | - | 7.9 | 11.8 | 10.6 | _ | 13.0 |
| HbA1c (IFCC) | S.I.* | 54 | 45 | - | 63 | 105 | 92 | | 119 |

Traceability to International Reference Standards

Standard: Value assignment to NGSP and IFCC reference materials.

Results: Value assignment to NGSP and IFCC reference materials. Meets specification

Testing to Confirm Non-Reactive for Common Pathogens

Standard: Verify test results or confirm certification that source materials have been tested and found non-reactive for common pathogens, including HBsAg, HBc, HIV 1&2, HCV, HTLV I/II, HIV 1&2-RNA, Syphilis, HBV-DNA.

Result: Verified with testing confirmed to be negative/non-reactive for pathogens.

Approval

Quality Manager:

Date: 2/24/2017

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14 14-1-Rev 6, 2017-02-24



Lot Number: 6999

Expiration Date: 2018-12-31
Production Date: 2016-12-15

Product Name: Genesys Diluent Reagent

REF: 01-03-0019 (3.8L)

Shelf-Life: Two Years (Unopened)

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Tightly Closed. Cool, Dry Location. (2-28°C, 36-82°F)

Intended Use: For Trinity Biotech Hemoglobin Variants IVD Assay Use

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter

Result: The solution is clear, colorless and free from observable particulate matter.

Meets specification.

Identity

Standard: Reagent foaming should occur when solution is vigorously shaken.

Result: The reagent foams when solution is vigorously shaken. Meets specification.

Conductivity

Standard: 320-500 µS/cm @ 25°C Result: Meets specification.

Approval

Quality Manager

Date: 12/27/2020



Lot Number: 7099

Expiration Date: 2019-01-31 Production Date: 2017-01-26

Product Name: System Wash Reagent

REF: 01-03-0035 (940mL)

Shelf-Life: Two Years (Unopened), 30 Days (Opened)

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Tightly Closed. Cool, Dry Location. (2-28°C, 36-82°F)

Intended Use: For Trinity Biotech A_{1C} and Hemoglobin Variants IVD Assay Use

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter Result: A clear, colorless solution is free from observable particulate matter.

Meets specification.

Specific Gravity

Standard: 0.985 - 0.995 Nominal

Result: Meets specification

Approval

Quality Manager:

Date: 1/27/207

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ध्याँगेर्न्थ Rev 5, 2015-12-14



Lot Number: 6305

Expiration Date: 2018-03-31 Production Date: 2016-03-16

Product Name: Mobile Phase 1 Reagent REF: 01-03-0042 (940mL), 01-03-0040 (3.8L)

Shelf-Life: Two Years (Unopened)

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Tightly Closed. Cool, Dry Location. (2-28°C, 36-82°F)

Intended Use: For Trinity Biotech Hemoglobin Variants IVD Assay Use

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter

Result: The solution is clear, colorless and free from observable particulate matter. Meets specification.

Performance

Standard: No F, A, S, or C Hb peak outside of the RT acceptance range in Quick Scan.

| | | Acceptant | ce Criteria | |
|---------|---------|-----------|-------------|----------------------|
| Result: | Hb Peak | Low Range | High Range | |
| | F | 1.350 | 1.649 | |
| | Α | 2.150 | 2.649 | |
| | S | 2.750 | 3.249 | |
| | С | 3,250 | 3.649 | Meets specification. |

Performance - Controls

Standard: No test value outside of controls upper and lower limit on HPLC.

Result: Meets specification.

Performance - Chromatography

Standard: A1c peak separated from HbF peak in the FASC control.

Peaks occurring earlier than 0.2 minutes are less than 20mm.

A2 peak has baseline separation from HbA and HbS in the FASC control.

Result: A1c peak is separated from HbF peak in the FASC control.

Peaks occurring earlier than 0.2 minutes are less than 20mm.

A2 peak has baseline separation from HbA and HbS in the FASC control. Meets specification.

Approval

Quality Manager:

Date

3/16/2016

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1314/mlf Rev 5, 2015-12-14

11/2



Lot Number: 7117

Expiration Date: 2019-01-31 Production Date: 2017-01-30

Product Name: Mobile Phase 2 Reagent REF: 01-03-0044 (940mL), 01-03-0041 (3.8L)

Shelf-Life: Two Years (Unopened)

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Tightly Closed. Cool, Dry Location. (2-28°C, 36-82°F)

Intended Use: For Trinity Biotech Hemoglobin Variants IVD Assay Use

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter

Result: The solution is clear, colorless and free from observable particulate matter. Meets specification.

Performance

Standard: No F, A, S, or C Hb peak outside of the RT acceptance range in Quick Scan.

| | | Acceptanc | e Criteria | |
|---------|----------------|-----------|------------|---------------------|
| Result: | <u>Hb Peak</u> | Low Range | High Range | |
| | F | 1.350 | 1.649 | |
| | Α | 2.150 | 2.649 | |
| | S | 2.750 | 3.249 | |
| | C | 3.250 | 3.649 | Meets specification |

Performance - Controls

Standard: No test value outside of controls upper and lower limit on HPLC.

Result: Meets specification.

Performance - Chromatography

Standard: A1c peak separated from HbF peak in the FASC control.

Peaks occurring earlier than 0.2 minutes are less than 20mm.

A2 peak has baseline separation from HbA and HbS in the FASC control.

Result: A1c peak is separated from HbF peak in the FASC control.

Peaks occurring earlier than 0.2 minutes are less than 20mm.

A2 peak has baseline separation from HbA and HbS in the FASC control. Mea

Meets specification.

Approval

Quality Manager:

Date: 2/7/2017

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ங்ர்⁄்⊫\$ Rev 5, 2015-12-14



Lot Number: 7021

Expiration Date: 2018-12-31
Production Date: 2016-12-22

Product Name: 2 Diluent Reagent

REF: 01-03-0059 (940mL), 01-03-0056 (3.8L)

Shelf-Life: Two Years (Unopened)

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Tightly Closed. Cool, Dry Location. (2-28°C, 36-82°F)

Intended Use: For use on Trinity Biotech Ultra2 Affinity HbA1c and the Ultra2 Resolution Variants

Analyzers.

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter

Result: The solution is clear, colorless and free from observable particulate matter.

Meets specification.

Baseline Flatness

Standard: Flat baseline with no deflection.

Result: The baseline is flat with no deflection. Meets specification.

Identity

Standard: Reagent foaming should occur when solution is vigorously shaken.

Result: The reagent foams when solution is vigorously shaken. Meets specification.

Lysis

Standard: A clear red solution is produced with no turbidity on standing.

Result: A clear red solution is produced with no turbidity on standing. Meets specification.

Performance

Standard: No test value outside of controls upper and lower limit on HPLC.

Result: Meets specification.

Approval

Quality Manager:

Date: 12/29/2014

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THRINGREV 5, 2015-12-14



Lot Number: 6632

Expiration Date: 2018-08-31 Production Date: 2016-08-16 Product Name: PDQ 2 Reagent

REF: 01-03-0065 (940mL)

Shelf-Life: 2-Years (Unopened with seal intact), 30-Days (After opening, if installed and capped.)

Manufactured and Distributed By: Trinity Biotech, Kansas City, Missouri, USA

Storage Reqs: Keep tightly closed and store in a cool, dry location at 2-28°C, 36-82°F.

Intended Use: For Trinity Biotech Aic IVD Assay Use

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter

The solution is clear, colorless and free from observable particulate matter.

Meets specification.

Baseline Flatness

Standard: Flat baseline with no deflection.

The baseline is flat with no deflection. Meets specification. Result:

pH Conformance

Standard: 8.00 to 9.00

Result: Meets specification.

Control Performance

Standard: No test value outside of controls upper and lower limit on HPLC.

Meets specification. Result:

PDQ Calibration

Standard: %A1c raw recovery within +/-0.3% for level 1 and +/-0.5% for level 2.

Meets specification. Result:

Approval

Quality Manager:

_ Date: 8/22/2011

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Lot Number: 7105

Expiration Date: 2019-01-31 Production Date: 2017-01-24

Product Name: PDQ Wash Reagent

REF: 01-03-0067 (940mL)

Shelf-Life: Two Years (Unopened)

Manufactured/Distributed By: Trinity Biotech

Storage Requirements: Tightly Closed. Cool, Dry Location. (2-28°C, 36-82°F)

Intended Use: For Trinity Biotech A_{1C} IVD Assay Use

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter A clear, colorless solution is free from observable particulate matter. Result:

Meets specification.

Specific Gravity

Standard: 0.985 - 0.995 Nominal Result:

Meets specification

Approval

Quality Manager:

Date: 1/3/2017



Product Name: TRI-stat Reagent Kit

REF: 03-06-0010

Lot Number: 6969 (11)

Production Date: 2017-03-21 Expiration Date: 2018-06-30

Manufactured/Distributed By: Trinity Biotech, Kansas City, Missouri, USA

Storage Requirements: Store refrigerated in an upright position at 2-8°C. DO NOT FREEZE.

See Package Insert for instructions on usage and stability.

Intended Use: The Tri-stat Reagent Kit for use with Trinity Biotech Tri-stat Analyzer, is a rapid in vitro test for measuring the level of glycated haemoglobin (HbA1c) in human blood from finger stick or venous samples.

Method of Analysis:

Control Performance

Standard: No test value outside of controls upper and lower limit on Tri-stat analyzer

Result: Meets specification.

Whole Blood Performance

Standard: No test value outside of controls upper and lower limit on Tri-stat analyzer

Result: Meets specification

Correlation

Standard: No correlation value outside of the lower limit on Tri-stat analyzer (2 > 0.980)

Result: Meets specification

Key Card Conformance

Standard: Tri-stat analyzer accurately displays the reagent calibration information

Result: Key card is scanned accurately by the Tri-stat analyzer.

Approval

Quality Manager:

Date:

4/5/2017



Lot Number: 6606

Expiration Date: 2018-08-31 Production Date: 2016-08-02

Product Name: Premier Diluent Reagent

REF: 01-03-0097

Shelf-Life: 2-Years (Unopened)

Manufactured and Distributed By: Trinity Biotech, Kansas City, Missouri, USA

Storage Regs: Keep tightly closed and store in a cool, dry location at 2-28°C, 36-82°F.

Use: For use with the Premier Hb9210 HbA1c Analyzer No substitutions or other uses are

permitted.

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter

Result: The solution is clear, colorless and free from observable particulate matter.

Meets specification.

Baseline Flatness

Standard: Flat baseline with no deflection.

Result: The baseline is flat with no deflection. Meets specification.

Identity

Standard: Reagent foaming should occur when solution is vigorously shaken.

Result: The reagent foams when solution is vigorously shaken. Meets specification.

Lysis

Standard: A clear red solution is produced with no turbidity on standing.

Result: A clear red solution is produced with no turbidity on standing. Meets specification.

Control Performance

Standard: No test value outside of controls upper and lower limit on HPLC.

Result: Meets specification.

Approval

Quality Manager:

Date: 8/2/2011



Lot Number: 6685

Expiration Date: 2018-09-30 Production Date: 2016-09-02

Product Name: Premier Diluent Reagent

REF: 01-03-0097

Shelf-Life: 2-Years (Unopened)

Manufactured and Distributed By: Trinity Biotech, Kansas City, Missouri, USA

Storage Reqs: Keep tightly closed and store in a cool, dry location at 2-28°C, 36-82°F.

Use: For use with the Premier Hb9210 HbA1c Analyzer No substitutions or other uses are

permitted.

Method of Analysis:

Visual Examination

Standard: A clear, colorless solution free from observable particulate matter

Result: The solution is clear, colorless and free from observable particulate matter.

Meets specification.

Baseline Flatness

Standard: Flat baseline with no deflection.

Result: The baseline is flat with no deflection. Meets specification.

Identity

Standard: Reagent foaming should occur when solution is vigorously shaken.

Result: The reagent foams when solution is vigorously shaken. Meets specification.

Lysis

Standard: A clear red solution is produced with no turbidity on standing.

Result: A clear red solution is produced with no turbidity on standing. Meets specification.

Control Performance

Standard: No test value outside of controls upper and lower limit on HPLC.

Result: Meets specification.

Approval

Quality Manager:

Date: 9/12/2014





HbA1c Analytical Column (1000)











LOT 6622 2019-08-31 09-06-0046 REF 1 Each

TRANSPORT LONG TERM STORAGE 30 DAYS MAX -28°C - 8 °C

ECIREP Tet +353 1 276 9800 Fax: +353 1 276 9888

Certificate of Analysis

Production Date

2016-08-31

Intended Use

This analytical column is intended for use with the Premier Hb9210™ HbA1c Analyzer only. No substitutions are permitted, registered, cleared or authorized. No other uses are intended, registered, cleared or authorized.

The Premier Hb9210™ system is intended for the quantitative measurement of hemoglobin A1c (HbA1c) in human capillary and venous whole blood. HbA1c is used for the monitoring of long-term glycemic control in individuals with diabetes mellitus. For in vitro diagnostic use only. IVD

| | Performance Analysis |
|---|---|
| | BASELINE ACCEPTABILITY |
| Standard | Baseline flat and quiet with no deflection higher than 5 mm above normal |
| Result | The initial baseline is flat with no deflection on the printed chromatogram greater than 5mm about the normal. |
| | CHROMATOGRAPHY ACCEPTABILITY |
| Standard | Non-glycated and glycated peak shape, resolution and separation good. |
| Result | The non-glycated and glycated peak shape, resolution and separation are good. |
| | ACCURACY AND LINEARITY |
| Standard | Pool linearity set (with traceability to IFCC standards) recovery within limits. |
| Result | The pool linearity set recovery is within acceptable limits. |
| 711111111111111111111111111111111111111 | RETENTION TIME - PEAK 1 |
| Standard | Peak 1 recovery between 0.20 and 0.30 Minutes. |
| Result | The recovery of peak 1 is between 0.20 and 0.30 minutes . |
| | RETENTION TIME - PEAK 2 |
| Standard | Peak 2 recovery between 0.58 and 0.68 Minutes. |
| Result | The recovery of peak 2 is between 0.58 and 0.68 minutes |
| | DRIFT - %HbA1c WITH CALIBRATOR 1 |
| Standard | Standard drift 0.1 to 0.2 |
| Result | The standard drift is between 0.1 and 0.2. |
| | DRIFT - %HbA1c WITH CALIBRATOR 2 |
| Standard | Standard Drift 0.1 to 0.3 |
| Result | The standard drift is between 0.1 and 0.3 |
| | BORONATE AFFINITY ACTIVITY ACCEPTABILITY |
| Standard | Acceptable total peak area count for C-trait and normal patient sample. |
| Result | The total peak area count for C-trait and normal patient sample is acceptable. |



9/19/2000

SUMMARY AND EXPLANATION OF TEST

HbA1c - Assessment of hemoglobin A1c has proven useful in the control of diabetes.

Analytical column is performance validated to assure accuracy and precision with the Trinity Blotech assay and system for the measurement of hemoglobin A1c.

Column is ready for use.

| (Ii | Important Information | Immediately following each column change, please verify that the baseline is smooth and quiet prior to running calibration. Do not proceed if excessive noise is present. Please refer to the system Operator's Manual chapter for "Chromatography" for additional information regarding column change verification and baseline verification checks. |
|-----|--------------------------|---|
|-----|--------------------------|---|

STORAGE AND STABILITY

Store at 2 − 8°C for long term storage. Do not allow to freeze.

Columns that are refrigerated at 2-8°C are stable until the noted expiry when kept tightly closed. Columns that are placed into service have a limited shelf life of a few weeks and will be gradually consumed once opened, including when removed from the system.

EXP. See the column label for the expiration date. DO NOT USE after the expiration date.

PRECAUTIONS

For in vitro diagnostic use only. Avoid skin contact. Consult the product MSDS for safety information. This column is used in conjunction with blood testing equipment and warrants handling under universal precaution procedures for safety.

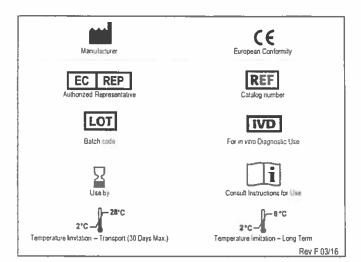
| Catalogue No. | tem | Quantity |
|---------------|---|----------|
| 09-06-0046 | Premier Hb9210™ HbA1c Analytical Column | 1 each |

COLUMN LIFE

Column life will vary depending on diligence in system maintenance (regular and preventative maintenance, as scheduled and using manufacturer specified items). Column life will vary depending on weekly test throughput (low throughput and infrequently used systems may not achieve the average number injections.) Column life will vary depending on diligence in column maintenance (enzyme treatments, trit changes, reversing column direction (flipping), proper shutdowns (nightly/weekends) with wash reagent to preserve the column. Column life will vary depending on diligence in reagent management (closed containers, no topping-off, replacement of fouled check-valves if reagent is allowed to run dry). Column life will vary depending on diligence in calibrator and control management (careful preparation according to PI reconstitution instructions, careful preservation according to PI Instructions). *Note: Use of alternate control materials, not supplied by Trinity Blotech, may result in control drift and reduced column life and thereby volds any implied or written column performance or column life warranty.

Any series of columns experiencing reduced life on the same instrument is indication of a system or operation issue (or very low weekly test throughput). Systems in need of routine or preventive maintenance will experience reduced column life. For these systems, although changing the column provides improvement, it is not the cause, and short column life will continue until the issue is properly addressed.

NOTE: Column warranty claims must include the following supporting information: maintenance schedule (date of last PM), column change report (or cycle count) report, chromatography (including cover page and header information), the number of injections, and any follow-up information requests made. Any claim with missing information, as specified above, cannot be processed.





Trinity Biotech Kansas City, MO 64132

EC REP

Trinity Blotech plc Bray Co. Wicklow, Ireland Tel. 353 1 2769800 Fax 353 1 2769888 www.trinityblotech.com



160 saple





HbA1c Analytical Column (500)











REF

6621 2019-08-31 09-06-0050

1 Each

CONT

LOT

P otech pic

Trinity Biotech pic Bray, Co. Wicklow, Ireland Tet: -353 1 276 9800 Fax: -353 1 778 9888

30 DAYS MAX 2°C - 28°C



Certificate of Analysis

Production Date

2016-08-31

Intended Use

This analytical column is intended for use with the Premier Hb9210TM HbA1c Analyzer only. No substitutions are permitted, registered, cleared or authorized. No other uses are intended, registered, cleared or authorized.

The Premier Hb9210™ system is intended for the quantitative measurement of hemoglobin A1c (HbA1c) in human capillary and venous whole blood. HbA1c is used for the monitoring of long-term glycemic control in individuals with diabetes mellitus. For *in vitro* diagnostic use only. IVD

| Performance Analysis | | |
|----------------------|---|--|
| | BASELINE ACCEPTABILITY | |
| Standard | Baseline flat and quiet with no deflection higher than 5 mm above normal. | |
| Result | The initial baseline is flat with no deflection on the printed chromatogram greater than 5mm about the normal. | |
| | CHROMATOGRAPHY ACCEPTABILITY | |
| Standard | Non-glycated and glycated peak shape, resolution and separation good. | |
| Result | The non-glycated and glycated peak shape, resolution and separation are good. | |
| | ACCURACY AND LINEARITY | |
| Standard | Pool linearity set (with traceability to IFCC standards) recovery within limits. | |
| Result | The pool linearity set recovery is within acceptable limits. | |
| | RETENTION TIME - PEAK 1 | |
| Standard | Peak 1 recovery between 0.20 and 0.30 Minutes. | |
| Result | The pool linearity set recovery is within acceptable limits. | |
| | RETENTION TIME - PEAK 2 | |
| Standard | Peak 2 recovery between 0.58 and 0.68 Minutes. | |
| Result | The recovery of peak 2 is between 0.58 and 0.68 minute | |
| | DRIFT - %HbA1c WITH CALIBRATOR 1 | |
| Standard | Standard drift 0.1 to 0.2 | |
| Result | The standard drift is between 0.1 and 0.2. | |
| - | DRIFT • %HbA1c WITH CALIBRATOR 2 | |
| Standard | Standard Drift 0.1 to 0.3 | |
| Result | The standard drift is between 0.1 and 0.3 | |
| | BORONATE AFFINITY ACTIVITY ACCEPTABILITY | |
| Standard | Acceptable total peak area count for C-trait and normal patient sample. | |
| Result | The total peak area count for C-trait and normal patient sample | |

AUTHORIZED REPRESENTATIVE APPROVAL

Quality Control

Date

is acceptable.

9/19/20n

SUMMARY AND EXPLANATION OF TEST

HbA1c - Assessment of hemoglobin A1c has proven useful in the control of diabetes.

Analytical column is performance validated to assure accuracy and precision with the Trinity Biotech assay and system for the measurement of hemoglobin A1c.

Column is ready for use.

STORAGE AND STABILITY

√ Store at 2 – 8°C for long term storage. Do not allow to freeze.

Columns that are refrigerated at 2-8°C are stable until the noted expiry when kept tightly closed. Columns that are placed into service have a limited shell life of a few weeks and will be gradually consumed once opened, including when removed from the system.

EXP See the column label for the expiration date. DO NOT USE after the expiration date.

PRECAUTIONS

For in vitro diagnostic use only. Avoid skin contact. Consult the product MSDS for safety Information. This column is used in conjunction with blood testing equipment and warrants handling under universal precaution procedures for safety.

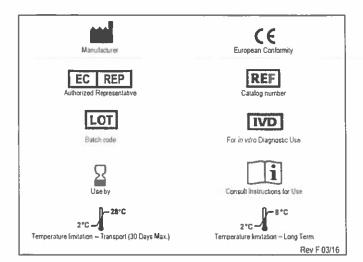
| ORDERING INFORMATION | | | |
|----------------------|---|----------|--|
| Catalogue No. | ltem | Quantity | |
| 09-06-0050 | Premier Hb9210™ HbA1c Analytical Column | 1 each | |
| | | | |

COLUMN LIFE

Column life will vary depending on diligence in system maintenance (regular and preventative maintenance, as scheduled and using manufacturer specified items). Column life will vary depending on weekly test throughput (low throughput and infrequently used systems may not achieve the average number injections.) Column life will vary depending on diligence in column maintenance (enzyme treatments, frit changes, reversing column direction (flipping), proper shutdowns (nightly/weekends) with wash reagent to preserve the column. Column life will vary depending on diligence in reagent management (closed containers, no topping-off, replacement of fouled check-valves if reagent is allowed to run dry). Column life will vary depending on diligence in calibrator and control management (careful preparation according to PI reconstitution instructions, careful preservation according to PI instructions). *Note: Use of alternate control materials, not supplied by Trinity Biotech, may result in control drift and reduced column life and thereby volds any implied or written column performance or column life warranty.

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