# Medisure Canada Inc.
## Product Features and Pricing Comparsion

| Manufacturer /Company | **Medisure®** | LifeScan® (J&J) | LifeScan® (J&J) | Roche ® | Roche ® | Roche® | Bayer ® | Bayer® | Abbot Diabetes ® | Auto Control Medical | Sanofi | Nova Biomedical | Tremblay Harrison Inc | Bionime ® |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brand Name of Meter | **Medisure** | One Touch Ultra2 | One Touch Verio | Accu-Chek Aviva | Accu-Chek Aviva Nano | Accu-Chek Compact Plus | Bayer Contour | Bayer Breeze® 2 | FreeStyle Lite | iTest® Meter | BGStar® | Nova Max™ Plus | EZ Health Oracle™® | GM100 & GM550™ |
| Test Strip Brand Name | **Medisure® Test Strip** | One Touch® Ultra2 Blue Test Strip | One Touch Verio® Gold Test Strip | Accu-Chek Aviva® Test Strip | Accu-Chek Aviva® Test Strip | Accu-Chek Aviva ® Test Strip | Contour® Test Strip | Breeze 2® Test Strip | FreeStyle® Lite | iTest ™® Test Strip | BGStar™® Test Strip | Nova Max ™® Test Strip | EZ Health Oracle ™® Test Strip | GS100 ™® Test Strips |
| "Get a Free Meter Offer" | **Yes** | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes |
| Eynzymatic Formulary [(1)] | **GOD** | GOD | GOD | FAD-GDH | FAD-GDH | FAD-GDH | GDH | GOD | FAD-GDH | GOD | GOD | GOD | GOD | GOD |
| Backlit Display | **No** | Yes | Yes | No | No | No | No | No | Yes | Yes | No | No | No | Yes |
| Talking Meter | **No** | No | No | No | No | No | No | No | No | No | No | No | Yes | No |
| Sample Size | **0.6µL** | 1.0µL | 0.4µL | 0.6µL | 0.6µL | 1.5µL | 0.6µL | 1µL | 0.3µL | 1µL | 0.5µL | 0.3µL | 0.6µL | 1.0µL |
| Test Speed | **6 sec** | 5 sec | 5 sec | 5 sec | 5 sec | 5 sec | 5 sec | 5 sec | 5 sec | 5 sec | 6 sec | 5 sec | 7 sec | 5 sec |
| Ketone Test Reminder | **No** | No | No | No | No | No | No | No | No | No | No | No | Yes | No |
| Weekday Display | **Yes** | No | No | No | No | No | No | No | No | No | Yes | No | No | No |
| Glucose Control Detection | **Yes** | No | No | Yes | Yes | Yes | Yes | No | No | No | Yes | No | No | Yes |
| Coding Required | **No** | No | No | No | No | No | No | No | No | No | No | No | No | No |
| Averaging function (Days Average display) | **7/14/21/28** | 7/14/ 19/30 | 7/14/ 30/90 | 7/14/ 19/30 | 7/14/ 19/30 | 7/14/ 19/30 | 7/14/30 | 7/14/ 19/30 | 7/14/ 19/30 | 7/14/ 19/30 | 7/14/ 19/30 | 14 | 7/14/21/ 30/60/90 | 7/14/21/ 30/60/90 |
| Strip Release button | **No** | No | No | No | No | Yes | No | Yes | Yes | Yes | No | No | No | No |
| Testing Reminder Alarms | **Yes (4)** | No | Yes | Yes (4) | Yes (4) | Yes (3) | Yes (1) | No | No | No | No | No | No | No |
| BG Range | **1.1-41.7** | 1.1-33.3 | 1.1-33.3 | 0.6-33.3 | 0.6-33.3 | 0.6-33.3 | 0.6-33.3 | 0.6-33.3 | 0.6-33.3 | 0.6-33.3 | 1.1 to 33.3 | 0.3-33.3 | 0.6-33.3 | 0.6-33.3 |
| Memory (Number of Tests) | **960** | 500 | 750 | 500 | 500 | 300 | 480 | 420 | 420 | 420 | 300 | 400 | 450 | 500 |
| Retail Price per test strip(2) | **$ 0.49** | **$ 0.86** | **$ 1.00** | **$ 0.86** | **$ 0.88** | **$ 0.88** | **$ 0.86** | **$ 1.05** | **$ 1.05** | **$ 0.98** | **$ 0.83** | **$ 0.76** | **$ 1.15** | **$ 0.71** |
| **Accuracy Comparisons** | | | | | | | | | | | | | | |
| **At BG concentrations < 4.2 mmol/L** Within ± 0.28 mmol/L | **100% [11]** | 48.8% [5] | 88.2% [6] | 87% [4] | 84% [4] | 23% [4] | 38% [12] | 48.6% [17] | 73% [4] | 39% [4] [8] | 65% [4][7] | 50% [13] | Unknown [14] | 86.7% [9] |
| **At BG concentrations < 4.2 mmol/L** Within ± 0.56 mmol/L | **100%** | 84.5% [5] | 100% [6] | 100% | 100% | 88% | 66% | 86% | 100% | 75% | 100% | 71.1% | Unknown | 100% |
| **At BG concentrations < 4.2 mmol/L** Within ± 0.83 mmol/L | **100%** | 100% [5] | 100% [6] | 100% | 100% | 100% | 85% | 97.1% | 100% | 100% | 100% | 100% | Unknown | 100% |
| **At BG concentration ≥4.2 mmol/L** Within ±5% | **78%** | 38.0% [5] | 71.1% [6] | 64% | 65% | 63% | 68% | 22.2% [17] | 68% | 45% [4] [8] | 67% [4] | 41% | Unknown | 65.0% |
| **At BG concentration ≥4.2 mmol/L** Within ±10% | **100%** | 68%% [5] | 94.8% [6] | 91% | 94% | 91% | 86% | 56.2% | 95% | 78% | 92% | 72% | Unknown | 89.3% |
| **At BG concentration ≥4.2 mmol/L** Within ±15% | **100%** | 88.2% [5] | 98.0% [6] | 99% | 99% | 100% | TBD | 86% | 99% | 94% | 99% | 91.9% | Unknown | 98.1% |
| **At BG concentration ≥4.2 mmol/L** Within ±20% | **100%** | 95.7% [5] | 100% [6] | 100% | 100% | 100% | TBD | 98% [16] | 99% | 100% | 100% | 96.8% | Unknown | 100% |
| **Meets Current ISO 15197 Standard** [4] 95% within ± 0.83 mmol/L. @ < 4.2 mmol/L & within ±20% @ ≥4.2 mmol/L [4] | **Yes** | Yes [4] [5] | Yes [4] | Yes [4] | Yes [4] | Yes | Yes | Yes [16] | Yes [17] | Yes [8] | Yes [17] | Yes [13] | No Clinical Data Published | Yes |
| **Meets Draft ISO 15197 Standard** [4] 95% within ± 0.83 mmol/L. @ < 5.6 mmol/L & within ±15% @ ≥ 5.6 mmol/L [4] | **Yes** | No [4] [5] | No [15] [17] | No [12] | Yes [17] | No [4] | No Clinical Data Published | No [17] | Yes [17] | No [8] | No [4] [17] | No Clinical Data Published | No Clinical Data Published | No Clinical Data Published |

**Product Comparison Notes:**

(1) **GOD =** GLUCOSE OXIDASE REAGENT. **GDH-PQQ**=Glucose DeHydrogenase Pyrroloquinolinequinone. **FAD-GDH** =Flavin Adenine Dinucleotide dependent Glucose Dehydrogenase

(2) The average retail price per test strip is $0.90

(3) The average maximium amount the Ontario MOHLTC is $0.729

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**Accuracy Comparison Notes:**

[4] The Section on Accuracy for the Current ISO 15197 Standard States: *"Ninety-five percent (95%) of the individual lucose results shall fall within ±15 mg/dL (0.83 mmol/L) of the the manufacturer's measurement procedure at glucose concentrations < 75mg/dL (4.2 mmol/L) and within ±20% glucose concentrations 75 mg/dL (4.2 mmol/L)."*

**DIN EN ISO 15197:200314** is an internationally accepted standard defining performance requirements for BG systems for SMBG, e.g., concerning accuracy. The standard states that ≥95% of the BG system measurement results shall fall within ±.83 mmol/L of the results of the manufacturer's measurement procedure at glucose concentrations <4.2 mmol/L and within ±20% at glucose concentrations ≥4.2 mmol/L.

**Draft revision of ISO 15197:**

A revised version of the International Organization for Standardization (ISO) standard, expected to be published in 2013, includes tighter criteria for the minimum accuracy of BG systems. The current **draft revision of ISO 15197** states that ≥95% of the system measurement results shall fall within ± .83 mmol/L of the results of the manufacturer's measurement procedure at glucose concentrations < 5.6 mmol/L and within ±15% at glucose concentrations ≥5.6 mmol/L

*Source : Jounal of Diabetes and Tecnology - September 2012 - "System Accuracy Evaluation of 43 Blood Glucose Monitoring Systems for Self-Monitoring of Blood Glucose according to DIN EN ISO 15197" - http://www.journalofdst.org/September2012/PDF/VOL-6-5-ORG2-FRECKMANN.pdf*

(5) Source : LifeScan Ultra2 Blue Test Strip IFU : http://www.onetouch.com/professional/sites/www.onetouch.com.professional/files/docfile/132122944813171148860662601C_UBlueTestStrip_Instructions_for_use.pdf

[6] Source : http://www.accessdata.fda.gov/cdrh_docs/reviews/K110637.pdf

[7] Source : http://www.accessdata.fda.gov/cdrh_docs/reviews/K103544.pdf

[8] Source : http://www.journalofdst.org/September2012/PDF/VOL-6-5-ORG2-FRECKMANN.pdf - (Note: iTest Meter = WaveSense Jazz)

[9] Source : http://www.accessdata.fda.gov/cdrh_docs/reviews/K120423.pdf

[10] Source : http://www.accessdata.fda.gov/cdrh_docs/reviews/K122435.pdf

[11] Source : Medi+Sure Accuracy Study 2012.

[12] Source : Diabetes Technology and Theratputics Journal - Accuracy Evaluation of Five Blood Glucose Monitoring Systems Obtained from the Pharmacy: A European Multicenter Study with 453 Subjects - http://online.liebertpub.com/doi/pdfplus/10.1089/dia.2011.0170

[13] Source : http://www.novacares.com/downloads/CTRIC_Poster.pdf & http://www.accessdata.fda.gov/cdrh_docs/reviews/K112638.pdf

[14] Source : Oracle Diabetes Test Strip Manual : https://www.oracledіabetes.com/pdf/Or_TestStrip_Manual.pdf

The Oracle Talking Meter Model is Brand Equivalent to the Taidoc TD-4223E Talking Meter, distributed in the USA as the Advocate Redi-Code TD-4223 E Talking Meter. - See : http://www.advocatemeters.com/shop/redi-code-speaking. There are no published FDA or CE studies. Nor has the TD-4223E been subject to any published clinical studies.

[15] Source : Lot-to-Lot Variability of Test Strips and Accuracy Assessment of Systems for Self-Monitoring of Blood Glucose according to ISO 15197 - http://www.accessdata.fda.gov/cdrh_docs/reviews/K122435.pdf

[16] Source : Page 39 - http://www.bayerdiabetes.ch/documents/products/breeze2/UG/99914449_Breeze2_UG_UK.pdf & http://www.bayercontour.com/resources/pdf/propdf/Article_Breeze2_Blood_Glucose_Monitoring_System

[17] Source : Page 3 - Clinical Laboratory . "Accuracy of Self Monitoring Blood Glucose Systems in a Clinical Setting: Application of New Planned ISO- Standards" - http://www.clin-lab-publications.com/files/eaop/2013_07+08/120710-Hasslacher.pdf