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## Blood Glucose Meter Comparison

| Blood Glucose Meter Comparison |   |   |   |  |   |  |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|--|---|--|---|---|---|---|---|---|---|---|
| Company                        | Abbott Diabetes Care  | Abbott Diabetes Care  | Abbott Diabetes Care  | Bayer Diabetes Care  | Arkray  | Arkray   | Bayer   | Roche   | Bayer Diabetes Care   | LifeScan, Inc.  | LifeScan, Inc.  | Arkray  | Roche® Diagnostics  | Roche® Diagnostics  |
| Model                          | FreeStyle Lite®   | FreeStyle Freedom Lite®   | Precision Xtra®   | Contour™   | Glucocard Vital   | Glucocard Expressions  | Contour Next  | Accu-check Aviva Combo  | Breeze™ 2   | OneTouch® UltraLink™  | OneTouch® Ultra® 2 / Ultra®   | Glucocard 01  | Accu-Chek® Compact Plus   | Accu-Chek® Aviva Plus   |
| Product Picture                |  |  |  |  |  |         |    |    |  |  |  |  |  |          |
| Features                       | Smallest meter  | Largest display   | Also test for blood ketones   | Pre and post meal markers set hi and low BG settings                               | Glucose oxidase system, fast and accurate results                                   | Talking meter, bilingual voice features, oversized picture icons and large tactile buttons | Wireless transmission of blood glucose test results to Medtronic insulin devices, quick and easy bolus dosing and continuous glucose monitoring calibration, connects directly to computer for instant access to test results and trends, accuracy is not affected by many interfering substances | Wireless transmission of blood glucose test results to Accu-check insulin devices, easy-to-read color display shows day, week, and month overviews, trends and graphs, adjustable backlight, preset and customizable alerts such as pre-and post-meal, pre-coded, customizable time blocks, target ranges, insulin settings | 10 test disc  | Wirelessly connects to insulin pump   | Pre and post meal markers   | Glucose oxidase system, fast and accurate results                                   | Detachable lancing device with brightest display and 17 test drum                   | Before and After Meal Markers. Includes 90 day glucose coverage. Comes in Silver and Black. |
| How calibrated                 | No coding   | No coding   | Snap-in code strip  | No coding  | No coding   | No coding  | No coding   | No coding   | No coding   | Coding required   | Coding required   | No coding   | No coding   | No coding   |
| Sample size (microliters)      | 0.3   | 0.3   | Glucose - 0.6<br>Ketone - 1.5   | 0.6  | 0.5   | > 1  | 0.6   | 0.6   | 1   | 1   | 1   | 0.3   | 1.5   | 0.6   |
| Alternate site testing         | Yes   | Yes   | Yes   | Yes  | Yes   | Palm, forearm  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Test time (seconds)            | 5   | 5   | Glucose - 5<br>Ketone - 10  | 5  | 7   | 6  | 5   | 5   | 5   | 5   | 5   | 7   | 5   | 5   |
| Backlight                      | Yes   | No  | Yes   | No   | No  | No   | No  | Yes   | No  | Yes   | Yes/No  | No  | No  | No  |
| Test strip port light          | Yes   | No  | No  | No   | No  | No   | Yes   | Yes   | No  | No  | No  | No  | No  | No  |
| Ketone testing                 | No  | No  | Yes   | No   | No  | No   | No  | No  | No  | No  | No  | No  | No  | No  |
| Height of read-out (mm)        | 10  | 20  | 19  | 12   | NA  | NA   | NA  | NA  | 11  | 13  | 15  | NA  | 16  | 16  |
| Weight (oz)                    | 1.4   | 1.43  | 1.48  | 1.7  | 1.5 oz  | 2.76   | 1.7   | 3.6 oz  | 3.8   | 3   | 1.5   | 1.6 oz  | 4.2   | 2.1   |
| Size (in)                      | 1.57 x 2.9 x 0.65   | 2 x 3.30 x 0.63   | 2.1 x 2.94 x 0.64   | 3 x 2.25 x 0.75  | 3" x 2" x 1/2"  | 3.7" x 2.3" x 0.8"   | 3.8 x 1.2 x 0.8   | 3.7 x 2.1 x 0.9   | 4.5 x 2.7 x 1.1   | 3.5 x 2.4 x 1   | 3.12 x 2.25 x 0.90"   | 2" x 3.9" x 0.5"  | 4.5 x 2.2 x 1.2   | 3.7 x 2.1 x 0.8   |
| Compatible test strips         | Freestyle Lite®   | Freestyle Lite®   | Precision Xtra®   | Contour™   | Vital   | Expression   | Contour Next  | Accucheck Aviva   | Breeze™ 2; 10 test disc   | OneTouch® Ultra®  | OneTouch® Ultra®  | Glucocard 01 Sensor   | Accu-Chek® test drum (17 tests)   | Accu-Chek® Aviva Plus   |

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|--|---|--|-------------------------------------|--|---|-----------------------|---|--|---|----------------------|--|--------------------------------------|--|---|
| Company  | Abbott Diabetes Care  | Abbott Diabetes Care   | Abbott Diabetes Care                | Bayer Diabetes Care  | Arkray  | Arkray                | Bayer   | Roche  | Bayer Diabetes Care                       | LifeScan, Inc.       | LifeScan, Inc.   | Arkray                               | Roche® Diagnostics                                 | Roche® Diagnostics  |
| Model  | FreeStyle Lite®   | FreeStyle Freedom Lite®  | Precision Xtra®                     | Contour™   | Glucocard Vital   | Glucocard Expressions | Contour Next  | Accu-check Aviva Combo                             | Breeze™ 2                                 | OneTouch® UltraLink™ | OneTouch® Ultra® 2 / Ultra®  | Glucocard 01                         | Accu-Chek® Compact Plus                            | Accu-Chek® Aviva Plus   |
| Range (mg/dl)  | 20-500  | 20-500   | Glucose 20 - 500<br>Ketone 0 - 6mcl | 10 - 600   | 20-600  | 20-600                | 20-600  | 20-600   | 20 - 600                                  | 20-600               | 20-600   | 20-600                               | 10-600   | 10-600  |
| Control solution   | X   | X  | X                                   | X  | Yes   | Yes                   | Yes   | Yes  | X   | X                    | X  | Yes                                  | X  | X   |
| Memory/storage (tests)                                       | 400   | 400  | 450                                 | 480  | 250   | 300                   | 1000  | 1000   | 420                                       | 500                  | 500  | 360                                  | 300  | 500   |
| Daily averages   | 7,14,30   | 7,14,30  | 7,14,30                             | 14   | 14,30   | 7,14,30               | 7,14,30   | 7,14,30,90   | 7,14,30                                   | 7, 14 ,30            | 7, 14 ,30  | 14, 30                               | 7, 14 ,30  | 7, 14 ,30, 90   |
| Battery life (number tests)                                  | 500   | 1000   | 1000                                | 1000   | 2000  | 1000                  | 1000  | 2000   | 1000                                      | 2 months             | 1000   | 2000                                 | 1000   | 1000  |
| Downloadable Data  | X   | X  | X                                   | X  | X   | X                     | X   | X  | X   | X                    | X  | X                                    | X  | X   |
| Brand Equivalents  | Accu-Chek Active, Accu-Chek Advantage, OneTouch Ultra & Ultra2, OneTouch Ultra Mini | Accu-Chek Aviva, OneTouch UltraSmart, OneTouch SureStep, OneTouch FastTake | Accu-Chek Complete                  | Accu-Chek Aviva, Accu-Chek Active, OneTouch Basic, OneTouch UltraMini, OneTouch Ultra & Ultra2 | Freestyle Freedom Lite, Contour, Accucheck Aviva, One Touch Ultra Smart | Advocate, Prodigy     | Compatible with Medtronic insulin delivery devices only | Compatible with Accucheck insulin delivery devices | Accu-Chek Compact Plus, Accu-Chek Compact | None                 | Accu-Chek Active, Accu-Chek Advantage, OneTouch Ultra, OneTouch Ultra Mini, Freestyle Lite | Freestyle Lite, One Touch Ultra Mini | Accu-Chek Compact Plus, Accu-Chek Compact, Breeze2 | Accu-Chek Aviva, Accu-Chek Active, OneTouch Basic, OneTouch UltraMini, OneTouch Ultra & Ultra2, Contour |
| Accuracy: Minimizes effects of common interfering substances | Yes   | Yes  | Yes                                 | Yes  |   |                       |   |  | Unknown                                   | Yes                  | No   |                                      | No   | No  |
| Ability to reapply second blood drop                         | Yes<br>60 sec   | Yes<br>60 sec  | Yes<br>5 sec                        | No   |   |                       |   |  | No  | No                   | No   |                                      | Yes<br>25 sec                                      | Yes<br>5 sec  |
| Sample fill technique  | Side  | Side   | End or Top                          | End  |   |                       |   |  | End                                       | End                  | End  |                                      | End  | End   |
| Hematocrit range   | 15-65%  | 15-65%   | 30-60%                              | 0-70%  |   |                       |   |  | 20-55%                                    | 30-55%               | 30-55%   |                                      | 25-65%   | 20-70%  |

The information provided here is based on product labeling at the time it was published obtained from current user guides, test strip package inserts and manufacturer web sites  
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For More Information, Call Customer Service 1-800-854-5729 or The Insulin Pump Group 1-877-262-2182