







2010 Comparison of blood glucose monitoring devices

System	Accu-Chek Performa	CareSens II	CareSens POP	FreeStyle Lite	On Call Advanced	Optium Xceed
						
Supplier	Roche Diagnostics	Pharmaco	Pharmaco	Medica Pacifica	Airflow Products	Medica Pacifica
Manufacturer	Roche Diagnostics	i-Sens Corp	i-Sens Corp	Abbott Diabetes Care	Acon Laboratories	Abbott Diabetes Care
Test Strip	Accu-Chek Performa	CareSens (includes lancets)	CareSens (includes lancets)	FreeStyle Lite	On Call Advanced (includes lancets)	Optium
Coding	Automatic via code chip	Manual input	Manual input	Not needed	Automatic via code chip	Automatic via code strip
Sample volume	0.6 µL	0.5 µL	0.5 µL	0.3 µL	0.8 µL	0.6 µL
Insufficient Sample	Error message	Error message	Error message	Will not start	Error message	Will not start
Software	AC SmartPix, AC 360, AC Compass, AC Pocket Compass	PC Care	None	CoPilot	Diabetes Monitoring Software Kit	CoPilot
Test Strip packaging	Vial	Vial	Vial	Vial	Vial	Individually foil wrapped
Open Strip Vial Stability	Until the expiry date printed on the vial	3 months from first open	3 months from first open	To expiry printed on vial	4 months from first open	To expiry printed on foil
Unopened Strip Vial Stability	18 months from manufacture	24 months from manufacture	24 months from manufacture	24 months from manufacture	24 months from manufacture	24 months from manufacture
Strip Expiry detection	Error message	None	None	None	None	Error message
Ketone Testing	X	X	X	X	X	✓
<i>Sample (in well ambulatory outpatients)</i>						
- Capillary	✓	✓	✓	✓	✓	✓
- Venous	✓	X	X	✓	✓	X
- Neonatal	✓	X	X	X	✓	X
- Arterial	✓	X	X	X	✓	X
Interference from icodextrin containing dialysis fluids	Yes	No	No	Yes	Yes	No
Measurement range	0.6-33.3 mmol/L	1.1-33.3 mmol/L	1.1-33.3 mmol/L	1.1-27.8 mmol/L	0.6-33.3 mmol/l	1.1-27.8 mmol/l
Hematocrit Range	10% - 70%	20% - 60%	20% - 60%	15% - 65%	20% - 70%	30% - 60%
Operation Temperature	6° - 44° C	10° - 40° C	10° - 40° C	4° - 40° C	5° - 45° C	10° - 50° C
Meter memory	500 tests	250 tests	10 tests	400 tests	300 tests	450 tests
Day Average	7, 14, 30 Day Average	14 days	No	7, 14, 30 Day Average	7, 14, 30, 60, 90 Day Average	7, 14, 30 Day Average
Warranty	Lifetime	5 years	5 years	Lifetime	5 years	Lifetime
Battery	2,000 tests	1,000 tests	1,000 tests	500 tests	3,000 tests	1,000 tests
Battery Error Signal	Error message and indicator for low battery	Indicator for low battery	"LO" flashes on the screen	Indicator for low battery	Error message and indicator for low battery	Indicator for low battery
Website	www.accu-chek.co.nz	www.i-sens.com www.pharmaco.co.nz	www.i-sens.com www.pharmaco.co.nz	www.medica.co.nz	www.air-flow.co.nz	www.medica.co.nz
Customer Support	HCP: 0800 22 22 14 Patients: 0800 80 22 99	0800 GLUCOSE (0800 45 82 67)	0800 GLUCOSE (0800 45 82 67)	0800 106 100	0800 AIRFLOW (0800 247356)	0800 106 100

Note: All meters above are calibrated to be plasma equivalent and have a test time of 5 seconds. All meters provide an operation temperature error signal.

In addition to the above blood glucose monitoring devices, PHARMAC subsidises the SensoCard brand of blood glucose test strips only if prescribed for a patient who is severely visually impaired and is using a SensoCard Plus Talking Blood Glucose Monitor.

Disclaimer: The material above has been provided by the New Zealand distributors and PHARMAC makes no representation to its accuracy.