	(blood samples, N=300 per level)				
Glucose Level / Glucose Level / Glucose Level mg/dL (mmol/L)	30-50 (1,7-2,8)	51-110 (2,8-6,1)	111-150 (6,2-8,3)	151-250 (8,4-13,9)	251-400 (13,9-22,2)
Average / Average / Average mg/dL (mmol/L)	53 (2,9)	73 (4,1)	132 (7,3)	224 (12,4)	340 (18,9)
SD / SD / SD mg/dL (mmol/L)	2,1 (0,1)	2,0 (0,1)	3,1 (0,2)	5,1 (0,3)	5,7 (0,3)
CV%/CV%/ CV%	NA	NA	2,3	2,3	1,7

	PRECISION / INTERMEDIATE PRECISION (Control Material, N=300 per level) / (Control Material, N=300 per level) / (Control Material, N=300 per level)			
	30-50 (1,7-2,8)	96 - 144 (5,3 - 8,0)	280-420 (15,5-23,3)	
	40 (2,2)	121 (6,7)	382 (21,2)	
	3,6 (0,2)	3,6 (0,2)	10,8 (0,6)	
	NΑ	3.3	3.0	

INTERMEDIATE PRECISION / INTERMEDIATE

Fig. 1

ACCURACY / ACCURACY / ACCURACY

Glucose concentration / Glucose concentration / Glucose concentration < 100 mg/dL (5.6 mmol/L) (N=198)

Within / Within \pm 5 mg/dL (0,28 mmol/L)	146/198 (73,7%)
Within / Within \pm 10 mg/dL (0,56 mmol/L)	196/198 (99,0%)
Within / Within ± 15 mg/dL (0,83 mmol/L)	198/198 (100%)

Glucose concentration / Glucose concentration / Glucose concentration ≥ 100 mg/dL (5,6 mmol/L) (N=402)

Within / Within \pm 5%	317/402 (78,9%)
Within / Within $\pm 10\%$	393/402 (97,8%)
Within / Within \pm 15%	401/402 (99,8%)

Combined results / Combined results / Combined results (N=600)

Within / Within \pm 15 mg/dL (0,83 mmol/L) or 15%	599/600 (99,8%)

Fig. 2

Substance / Substance / Substance	Test Concentration / Test Concentration / Test Concentration
Acetaminophen	10 mg/dL
Acetylsalicylic acid	40 mg/dL
Ascorbic acid	6 mg/dL
Bilirubin	20 mg/dL
Cholesterol	500 mg/dL
Creatinine	5 mg/dL
Dopamine	0,1 mg/dL
EDTA	0,5 mg/dL
Galactose	15 mg/dL
Gentisic acid	2 mg/dL
Glutathione	1,5 mmo l /L
Hemoglobin	200 mg/dL

Substance / Substance / Substance	Test Concentration / Test Concentration / Test Concentration
Heparin	3000 U/L
I buprofen	40 mg/dL
Icodextrin	1094 mg/dL
L-DOPA	3 mg/dL
Maltose	280 mg/dL
Methyl-Dopa	15 mg/dL
Pralidoxime lodide (PAM)	50 mg/dL
Tolazamide	23 mg/dL
Tollbutamide	10 mg/dL
Triglycerides	1500 mg/dL
Uric Acid	15 mg/dL
Xylose	25 mg/dL

Fig. 3

Symbols / Symbols / Symbols

, ,	
<u>l</u>	Manufacturer / Manufacturer / Manufacturer
\triangle	Caution, read instructions for use / Caution, read instructions for use / Caution, read instructions for use
REF	Catalogue number / Catalogue number / Catalogue number
LOT	Batch code / Batch code / Batch code
*	Temperature limitation / Temperature limitation / Temperature limitation
\square	Use by / Use by / Use by
CE	CE marking / CE marking / CE marking.
IVD	<i>In Vitro</i> Diagnostic Medica l Device / <i>In Vitro</i> Diagnostic Medical Device / <i>In Vitro</i> Diagnostic Medical Device
9	Significant additions or changes from previous instructions for use revision / Significant additions or changes from previous instructions for use revision / Significant additions or changes from previous instructions for use revision
43	Recyclable package / Recyclable package / Recyclable package

The test strips comply with the requirements of directive 2011/65/EU on the restriction of use of certain hazardous substances in electrical and electronic equipment and with the requirements of directive 98/79/EC on in vitro diagnostic medical devices. / The test strips comply with the requirements of directive 2011/65/EU on the restriction of use of certain hazardous substances in electrical and electronic equipment and with the requirements of directive 98/79/EC on in vitro diagnostic medical devices. The test strips comply with the requirements of directive 2011/65/EU on the restriction of use of certain hazardous substances in electrical and electronic equipment and with the requirements of directive 98/79/EC on in vitro diagnostic medical devices.

References / References

- Definition and diagnosis of diabetes mellitus and intermediate hyperglycaemia. Report of a WHO/IDF, World Health Organization, 2006.
- American Diabetes Association, Standards of Medical Care in Diabetes-2014. Diabetes Care, 37, Suppl 1, 2014.
- Oliver N. S., Toumazou C., Cass A. E. G., Johnston D. G., Glucose sensors: a review of current and emerging technology. Diabetic Medicine 26, 197-210, 2009.

Availability / Availability / Availability

REF XXXXX - 10 GlucoMen® areo Sensor: 1 vial x 10 test strips / 1 vial x 10 test strips / 1 vial x 10 test strips

REF XXXXX - 25 GlucoMen® areo Sensor: 1 vial x 25 test strips / 1 vial x 25 test strips / 1 vial x 25 test strips

REF XXXXX - 50 GlucoMen® areo Sensor: 1 vial x 50 test strips / 1 vial x 50 test strips / 1 vial x 50 test strips

REF XXXXX - 100 GlucoMen® areo Sensor: 2 vial x 50 test strips / 2 vial x 50 test strips / 2 vial x 50 test strips Date of issue: March 2017 / Date of issue: March 2017 / Date of issue: March 2017

Made in Taiwan



A. MENARINI DIAGNOSTICS Sri Via Sette Santi, 3 50131 Firenze - Italy

If you have any question about GlucoMen® areo Sensor, please contact: / If you have any question about GlucoMen® areo Sensor, please contact: / If you have any question about GlucoMen® areo Sensor, please contact



Distributed by:

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- Glucose Test Strips Instructions for use
- Glucose Test Strips Instructions for use
- Glucose Test Strips Instructions for use







MASTER

Before using the test strips carefully read these instructions for use and the User Manual of your meter. If you have any questions, please contact the A. Menarini Diagnostics Customer Service.

Intended use

The GlucoMen® areo Sensor test strips are only for use with the GlucoMen® areo blood glucose meter or the GlucoMen® areo 2K blood glucose and β -ketone meter for the quantitative measurement of glucose levels in fresh capillary whole blood. GlucoMen® areo Sensor is an in vitro diagnostic medical device.

GlucoMen® areo Sensor test strips are intended for self-testing to monitor and control blood glucose levels by people with diabetes mellitus; they can also be used in a clinical setting by healthcare professionals. They are not intended for diagnosis or screening of diabetes or for neonatal use. Do not alter your treatment on the basis of test results without previously consulting your doctor or healthcare professional.

Measurement principle

The glucose present in the blood sample mixes with reagents on the test strip and this reaction produces a small electric current, the intensity of which is proportional to the concentration of glucose in the blood. The meter measures this current and calculates your blood alucose level.

Reagent composition (per cm²)

- Glucose Oxidase (Aspergillus niger sourced), 3,5%
- Mediator: Hexacyanoferrate(III) ion, 17,5% Non-reactive substances, 79%

Storage and usage conditions

- Store the test strip vial in a dry place (RH 20-90%), at a temperature of 4 30 °C (39,2 86 °F). Do not freeze. Avoid heat and direct sunlight.
- Keep all unused test strips in the original vial and after having removed one, close the cap tightly to maintain their quality. Do not transfer them into any other container.
- Do not use the test strips past their expiry date
- Do not use the test strips for more than 12 months after first opening the test strip vial. We recommend writing the discard date (opening date + 12 months) on the label.

Warning and safety information

- Keep the meter, test strips and other items out of the reach and sight of children. Small items may represent choking hazards.
- Handle the test strips with clean, dry hands.
- Dispose of the vial and used test strips according to local regulations
- HANDLING BLOOD CAN BE DANGEROUS. You or other individuals could be infected by pathogenic microorganisms due to incorrect or imprecise procedures. **USE EXTREME CAUTION** when handling blood, test strips, lancets and meter.

Sample

This meter can test the glucose level of blood from your fingertip, palm, and forearm. However, test results from sites other than the fingertip (Alternative Site Testing, AST) may give different measurements. Consult your doctor or healthcare professional before

Procedure for blood glucose testing

Materials provided. GlucoMen® areo Sensor test strips.

Materials required but not provided. Meter, lancing device, lancets.

See the user manual of your meter for more details. • For accurate test results, allow the test strips and meter to adjust to their surroundings for at least 30 minutes before testing

- your blood glucose. Operating conditions are: temperature 5-45 °C (41-113 °F); relative humidity 20-90%. 1. Remove 1 test strip from the vial with clean, dry hands.
- The test strips are for single-use only. Do not use test strips if wet, damaged, or stored in a damaged vial.
- Tightly close the vial immediately after taking out a test strip. Use the test strip immediately.
- 2. Insert a new test strip into the test strip port. The drop icon will start blinking on the screen.
- 3. Collect blood using a lancing device and a new lancet, according to the relative instructions for use.
 - Apply the drop of blood to the tip of the test strip • Do not test blood that runs or spreads out from the puncture site.
 - Do not smear blood onto the test strip.
 - Do not forcefully push the test strip against the puncture site.
- Do not touch the test strip after the meter starts the countdown 5. The test result will appear on the screen once the test is completed.
- 6. Press the release button to remove the test strip. • Test strips and lancets qualify as biohazardous waste once used to test blood glucose. They must therefore be disposed of
- according to local regulations on biohazardous waste. • If the test result does not match with how you feel Make sure you performed the test correctly as explained in the user manual. Then conduct a control test to check that the

system is working properly. If you tested blood from your palm or forearm, repeat the test <mark>using a blood sample taken</mark> from a fingertip (do not use an alternative site). If the test results still do not match how you feel, contact your doctor or

Control solution test

If you need to perform a control test, read the user manual of your meter and the instructions for use of your GlucoMen® areo

Restrictions

- DO NOT use plasma or serum samples. DO NOT test venous or arterial blood samples.
- DO NOT test samples from newborn infants.
- Altitudes up to 3150 m (10335 feet) will not affect the test results.
- Allowed haematocrit range: 10 70% (EN ISO 15197:2015).
- lcodextrin and its metabolites (maltose, maltotriose and maltotetraose) do not significantly affect test results. The following drugs may affect test results: dopamine (>0,1 mg/dL), L-DOPA (>3 mg/dL), acetaminophen (>10 mg/dL).
- The system's glucose reading is not affected by sample oxygen conditions (p02) from 52-115 mmHg (6,9-15,3 kPa). Under 52 mmHg (6,9 kPa) the system overestimates the glucose values, whereas over 115 mmHg (15,3 kPa) the system underestimates

Measurement range

The results are equivalent to the plasma glucose concentration. The measurement range of the GlucoMen® areo Sensor is 20 - 600 mg/dL (1,1 - 33,3 mmol/L).

Calibration and traceability

The system is calibrated using reference plasma values determined with a YSI analyser. The YSI analyser is calibrated (as a secondary reference measurement procedure) using a series of YSI standards (primary calibrators) taken from the NIST (National Institute of Standards and Technology, USA)

Performance of GlucoMen® areo Sensor

The performance of GlucoMen® areo Sensor fully complies with EN ISO 15197:2015.

<u>Precision</u>. Repeatability and intermediate precision results are shown in *Fig. 1*.

<u>Accuracy</u>. A comparison of the results of the GlucoMen® areo Sensor with those obtained using capillary plasma tested with the glucose oxidase method performed on a laboratory analyser (YSI Model 2300 STAT Plus), indicated a high level of accuracy. The results were obtained by testing samples from 100 diabetic subjects (Fig. 2). 100% of the individual glucose measured values falls within zones A and B of the Consensus Error Grid for type 1 diabetes.

Interference Testing. The substances listed in Fig. 3 have been tested for interference with the system. The table reports the um concentration with no interfering effect according to EN ISO 15197:2015.

<u>User performance evaluation with GlucoMen® areo meter</u>. A study evaluating the glucose values in fingertip capillary whole blood samples obtained by 105 lay persons showed the following results: 100% within \pm 15 mg/dL (0,83 mmol/L) of the reference values at glucose concentrations < 100 mg/dL (5,6 mmol/L) and 98,9% within \pm 15% of the reference values at glucose concentrations $\geq 100 \text{ mg/dL } (5.6 \text{ mmol/L}).$

<u>User performance evaluation with GlucoMen® areo 2K meter</u>. A study evaluating the glucose values in fingertip capillary whole blood samples obtained by 100 lay persons showed the following results: 100% within \pm 15 mg/dL (0,83 mmol/L) of the reference values at glucose concentrations < 100 mg/dL (5,6 mmol/L) and 100% within \pm 15% of the reference values at glucose

MASTER

Before using the test strips carefully read these instructions for use and the User Manual of your meter. If you have any questions, please contact the A. Menarini Diagnostics Customer Service.

The GlucoMen® areo Sensor test strips are only for use with the GlucoMen® areo blood glucose meter or the GlucoMen® areo 2K blood glucose and β-ketone meter for the quantitative measurement of glucose levels in fresh capillary whole blood GlucoMen® areo Sensor is an in vitro diagnostic medical device.

GlucoMen® areo Sensor test strips are intended for self-testing to monitor and control blood glucose levels by people with diabetes mellitus; they can also be used in a clinical setting by healthcare professionals. They are not intended for diagnosis or screening of diabetes or for neonatal use. Do not alter your treatment on the basis of test results without previously consulting your doctor or

Measurement principle

The glucose present in the blood sample mixes with reagents on the test strip and this reaction produces a small electric current, the intensity of which is proportional to the concentration of glucose in the blood. The meter measures this current and calculates

Reagent composition (per cm²)

- Glucose Oxidase (Aspergillus niger sourced), 3,5%
- Mediator: Hexacyanoferrate(III) ion, 17,5%
- Non-reactive substances, 79%

Storage and usage conditions

- Store the test strip vial in a dry place (RH 20–90%), at a temperature of 4 30 °C (39,2 86 °F). Do not freeze. Avoid heat and
- Keep all unused test strips in the original vial and after having removed one, close the cap tightly to maintain their quality. Do not transfer them into any other container.
- Do not use the test strips past their expiry date.
- Do not use the test strips for more than 12 months after first opening the test strip vial. We recommend writing the discard date (opening date + 12 months) on the label.

Warning and safety information

- Keep the meter, test strips and other items out of the reach and sight of children. Small items may represent choking hazards.
- Handle the test strips with clean, dry hands.
- Dispose of the vial and used test strips according to local regulations.
- HANDLING BLOOD CAN BE DANGEROUS. You or other individuals could be infected by pathogenic microorganisms due to incorrect or imprecise procedures. **USE EXTREME CAUTION** when handling blood, test strips, lancets and meter.

Sample

This meter can test the glucose level of blood from your fingertip, palm, and forearm. However, test results from sites other than the fingertip (Alternative Site Testing, AST) may give different measurements. Consult your doctor or healthcare professional before

Procedure for blood glucose testing

Materials provided. GlucoMen® areo Sensor test strips

 $\underline{\textbf{Materials required but not provided}}. \ \textbf{Meter, lancing device, lancets}.$

See the user manual of your meter for more details.

- For accurate test results, allow the test strips and meter to adjust to their surroundings for at least 30 minutes before testing your blood glucose. Operating conditions are: temperature 5-45 °C (41-113 °F); relative humidity 20-90%.
- 1. Remove 1 test strip from the vial with clean, dry hands.
 - The test strips are for single-use only. Do not use test strips if wet, damaged, or stored in a damaged vial.
- Tightly close the vial immediately after taking out a test strip. Use the test strip immediately.
- 2. Insert a new test strip into the test strip port. The drop icon will start blinking on the screen
- 3. Collect blood using a lancing device and a new lancet, according to the relative instructions for use. 4. Apply the drop of blood to the tip of the test strip until the check window is full.
 - Do not test blood that runs or spreads out from the puncture site.
 - Do not smear blood onto the test strip.
 - Do not forcefully push the test strip against the puncture site.
- Do not touch the test strip after the meter starts the countdown 5. The test result will appear on the screen once the test is completed.
- 6. Press the release button to remove the test strip.
 - Test strips and lancets qualify as biohazardous waste once used to test blood glucose. They must therefore be disposed of
- according to local regulations on biohazardous waste.
- If the test result does not match with how you feel Make sure you performed the test correctly as explained in the user manual. Then conduct a control test to check that the system is working properly. If you tested blood from your palm or forearm, repeat the test using a blood sample taken from a fingertip (do not use an alternative site). If the test results still do not match how you feel, contact your doctor or

Control solution test

If you need to perform a control test, read the user manual of your meter and the instructions for use of your GlucoMen® areo

Restrictions

- DO NOT use plasma or serum samples. DO NOT test venous or arterial blood samples
- DO NOT test samples from newborn infants.
- Altitudes up to 3150 m (10335 feet) will not affect the test results. Allowed haematocrit range: 10 – 70% (EN ISO 15197:2015).
- Icodextrin and its metabolites (maltose, maltotriose and maltotetraose) do not significantly affect test results. The following drugs may affect test results: dopamine (>0,1 mg/dL), L-DOPA (>3 mg/dL), acetaminophen (>10 mg/dL).
- The system's glucose reading is not affected by sample oxygen conditions (pO2) from 52-115 mmHg (6,9-15,3 kPa). Under 52 mmHg (6,9 kPa) the system overestimates the glucose values, whereas over 115 mmHg (15,3 kPa) the system underestimates

Measurement range

The results are equivalent to the plasma glucose concentration. The measurement range of the GlucoMen® areo Sensor is 20 - 600 mg/dL (1,1 - 33,3 mmol/L).

Calibration and traceability

The system is calibrated using reference plasma values determined with a YSI analyser. The YSI analyser is calibrated (as a secondary reference measurement procedure) using a series of YSI standards (primary calibrators) taken from the NIST (National Institute of Standards and Technology, USA).

Performance of GlucoMen® areo Sensor

The performance of GlucoMen® areo Sensor fully complies with EN ISO 15197:2015.

<u>**Precision**</u>. Repeatability and intermediate precision results are shown in *Fig. 1*.

Accuracy. A comparison of the results of the GlucoMen® areo Sensor with those obtained using capillary plasma tested with the glucose oxidase method performed on a laboratory analyser (YSI Model 2300 STAT Plus), indicated a high level of accuracy. The results were obtained by testing samples from 100 diabetic subjects (Fig. 2). 100% of the individual glucose measured values falls within zones A and B of the Consensus Error Grid for type 1 diabetes.

Interference Testing. The substances listed in Fig. 3 have been tested for interference with the system. The table reports the maximum concentration with no interfering effect according to EN ISO 15197:2015.

<u>User performance evaluation with GlucoMen® areo meter</u>. A study evaluating the glucose values in fingertip capillary whole blood samples obtained by 105 lay persons showed the following results: 100% within \pm 15 mg/dL (0,83 mmol/L) of the reference values at glucose concentrations < 100 mg/dL (5,6 mmol/L) and 98,9% within \pm 15% of the reference values at qlucose concentrations $\geq 100 \text{ mg/dL} (5.6 \text{ mmol/L}).$

<u>User performance evaluation with GlucoMen® areo 2K meter</u>. A study evaluating the glucose values in fingertip capillary whole blood samples obtained by 100 lay persons showed the following results: 100% within \pm 15 mg/dL (0,83 mmol/L) of the reference values at glucose concentrations < 100 mg/dL (5,6 mmol/L) and 100% within ± 15% of the reference values at glucose concentrations $\geq 100 \text{ mg/dL} (5.6 \text{ mmol/L}).$

MASTER

Before using the test strips carefully read these instructions for use and the User Manual of your meter. If you have any questions, please contact the A. Menarini Diagnostics Customer Service.

Intended use

The GlucoMen® areo Sensor test strips are only for use with the GlucoMen® areo blood glucose meter or the GlucoMen® areo 2K blood glucose and β-ketone meter for the quantitative measurement of glucose levels in fresh capillary whole blood GlucoMen® areo Sensor is an in vitro diagnostic medical device.

GlucoMen® areo Sensor test strips are intended for self-testing to monitor and control blood glucose levels by people with diabetes mellitus; they can also be used in a clinical setting by healthcare professionals. They are not intended for diagnosis or screening of diabetes or for neonatal use. Do not alter your treatment on the basis of test results without previously consulting your doctor or healthcare professional

Measurement principle

The glucose present in the blood sample mixes with reagents on the test strip and this reaction produces a small electric current. the intensity of which is proportional to the concentration of glucose in the blood. The meter measures this current and calculates your blood glucose level.

Reagent composition (per cm²)

- Glucose Oxidase (Asperaillus niger sourced), 3,5%
- Mediator: Hexacyanoferrate(III) ion, 17,5%

Storage and usage conditions

- Store the test strip vial in a dry place (RH 20-90%), at a temperature of 4 30 °C (39,2 86 °F). Do not freeze. Avoid heat and
- Keep all unused test strips in the original vial and after having removed one, close the cap tightly to maintain their quality. Do not transfer them into any other container
- Do not use the test strips past their expiry date.
- Do not use the test strips for more than 12 months after first opening the test strip vial. We recommend writing the discard date (opening date + 12 months) on the label.

Warning and safety information

- Keep the meter, test strips and other items out of the reach and sight of children. Small items may represent choking hazards.
 - Handle the test strips with clean, dry hands.
- Dispose of the vial and used test strips according to local regulations
- HANDLING BLOOD CAN BE DANGEROUS. You or other individuals could be infected by pathogenic microorganisms due to incorrect or imprecise procedures. **USE EXTREME CAUTION** when handling blood, test strips, lancets and meter.

Sample

This meter can test the glucose level of blood from your fingertip, palm, and forearm. However, test results from sites other than the fingertip (Alternative Site Testing, AST) may give different measurements. Consult your doctor or healthcare professional before

Procedure for blood glucose testing

Materials provided. GlucoMen® areo Sensor test strips

See the user manual of your meter for more details.

<u>Materials required but not provided</u>. Meter, lancing device, lancets.

- For accurate test results, allow the test strips and meter to adjust to their surroundings for at least 30 minutes before testing your blood glucose. Operating conditions are: temperature 5–45 °C (41–113 °F); relative humidity 20–90%
- 1. Remove 1 test strip from the vial with clean, dry hands. • The test strips are for single-use only. **Do not** use test strips if wet, damaged, or stored in a damaged vial. • Tightly close the vial immediately after taking out a test strip.
- 2. Insert a new test strip into the test strip port. The drop icon will start blinking on the screen 3. Collect blood using a lancing device and a new lancet, according to the relative instructions for use
- Apply the drop of blood to the tip of the test strip until the check window is full.
- Do not test blood that runs or spreads out from the puncture site.
- Do not smear blood onto the test strip. Do not forcefully push the test strip against the puncture site.
- Do not touch the test strip after the meter starts the countdown The test result will appear on the screen once the test is completed.
- Press the release button to remove the test strip.
- Test strips and lancets qualify as biohazardous waste once used to test blood glucose. They must therefore be disposed of according to local regulations on biohazardous waste. If the test result does not match with how you feel

Make sure you performed the test correctly as explained in the user manual. Then conduct a control test to check that the

system is working properly. If you tested blood from your palm or forearm, repeat the test using a blood sample taken from a fingertip (do not use an alternative site). If the test results still do not match how you feel, contact your doctor or Control solution test

If you need to perform a control test, read the user manual of your meter and the instructions for use of your GlucoMen® area

Restrictions

- DO NOT use plasma or serum samples. DO NOT test venous or arterial blood samples. DO NOT test samples from newborn infants.
- Altitudes up to 3150 m (10335 feet) will not affect the test results.
- Allowed haematocrit range: 10 70% (EN ISO 15197:2015).
- lcodextrin and its metabolites (maltose, maltotriose and maltotetraose) do not significantly affect test results The following drugs may affect test results: dopamine (>0.1 mg/dL), L-DOPA (>3 mg/dL), acetaminophen (>10 mg/dL).
- The system's glucose reading is not affected by sample oxygen conditions (p02) from 52–115 mmHg (6,9–15,3 kPa). Under 52 mmHg (6,9 kPa) the system overestimates the glucose values, whereas over 115 mmHg (15,3 kPa) the system underestimates

Measurement range

The results are equivalent to the plasma glucose concentration. The measurement range of the GlucoMen® areo Sensor is 20 - 600 mg/dL (1,1 - 33,3 mmol/L).

Calibration and traceability

The system is calibrated using reference plasma values determined with a YSI analyser. The YSI analyser is calibrated (as a secondary reference measurement procedure) using a series of YSI standards (primary calibrators) taken from the NIST (National Institute of Standards and Technology, USA).

Performance of GlucoMen® areo Sensor

The performance of GlucoMen $^{\circ}$ areo Sensor fully complies with EN ISO 15197:2015.

Precision. Repeatability and intermediate precision results are shown in Fig. 1.

Accuracy. A comparison of the results of the GlucoMen® areo Sensor with those obtained using capillary plasma tested with the glucose oxidase method performed on a laboratory analyser (YSI Model 2300 STAT Plus), indicated a high level of accuracy. The results were obtained by testing samples from 100 diabetic subjects (Fig. 2). 100% of the individual glucose measured values falls within zones A and B of the Consensus Error Grid for type 1 diabetes.

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<u>User performance evaluation with GlucoMen® areo meter</u>. A study evaluating the glucose values in fingertip capillary whole blood samples obtained by 105 lay persons showed the following results: 100% within \pm 15 mg/dL (0,83 mmol/L) of the reference values at glucose concentrations < 100 mg/dL (5,6 mmol/L) and 98,9% within \pm 15% of the reference values at glucose concentrations $\geq 100 \text{ mg/dL} (5.6 \text{ mmol/L}).$

<u>User performance evaluation with GlucoMen® areo 2K meter</u>. A study evaluating the glucose values in fingertip capillary whole blood samples obtained by 100 lay persons showed the following results: 100% within \pm 15 mg/dL (0,83 mmol/L) of the reference values at glucose concentrations < 100 mg/dL (5,6 mmol/L) and 100% within \pm 15% of the reference values at glucose concentrations $\geq 100 \text{ mg/dL} (5.6 \text{ mmol/L}).$