



Volumetric
Glassware
ISO/IEC 17025
Certified Laboratory

PYREX® Serialized/Certified Volumetric Glassware

Individually and Lot Certified Volumetric for Laboratory ISO/IEC 17025 applications

PYREX® Now Tested and calibrated in an ISO/IEC 17025 certified laboratory

The accuracy of volumetric glassware can have a significant impact on experimental and testing results. This is why quality glassware is made in compliance with ASTM or industry recognized standards. In fact, PYREX glassware has long been, and will continue to be, made to ASTM standards.

But now we've taken our glassware quality control to an even higher level. As an added assurance of accuracy and precision, PYREX volumetric glassware is now tested and calibrated in an ISO/IEC 17025 accredited laboratory.

The Measure of Glassware Accuracy

To be ISO/IEC 17025 certified, an accredited laboratory must demonstrate high levels of competency for testing and calibration. ISO/IEC 17025 accreditation is your assurance that our laboratory has the appropriate quality management systems and technical competence to accurately and precisely test and calibrate your glassware.

Eliminates the Need for Third Party Testing

PYREX volumetric glassware will now be available with the laboratory ISO/IEC 17025 certificate, which can eliminate the need for independent third party calibration testing. Certificates can be downloaded from www.corning.com/certificates.

Another Milestone in a 100-year Legacy

ISO/IEC 17025 accreditation is the latest chapter in the PYREX story of continuous improvement and innovation. Invented by Corning in 1915, PYREX's chemically stable, heat-resistant, low-expansion borosilicate formula has been at the heart of groundbreaking discoveries and advancements in medicine, chemistry, and countless other fields. For more information, visit www.corning.com/pyrex.

Available for a Variety of Glassware

Volumetric PYREX glassware tested and calibrated in accordance with ISO/IEC 17025 includes:

- » Burets
- » Volumetric flasks
- » Volumetric and serological pipets
- » Graduated cylinders

See inside for a product listing.

Questions and Answers on product certification and traceability.

1. What are the differences between the standards or specifications of PYREX® Certified Individually Certified/Serialized, certified by Lot and the regular Class A volumetric products?

A. None. They are all manufactured to attend ASTM Class A volume specifications and tolerances. Example: all volumetric flasks attend ASTM E-288 standards and the transfer pipets to ASTM E-969.

2. Are there any differences or advantage in packages? Can the Dealers sell individual products or only closed boxes?

A. There are no differences in the packages for certified by lot and the regular Class A products. The advantage, like the Individually Certified/Serialized products, is the fact there is no need to keep the boxes or label and mark the pieces to keep traceability, because it is labeled in the product.

3. Are there any differences in the warranty, quality level or manufacturing process compared to other PYREX® products?

A. The manufacturing process is strictly the same for all three types (Regular, Certified by Lot and Individually Cert/Serial volumetric). It is important to note that the internal Corning specs at the plant are even more rigorous 20% to 25% compared to ASTM standards. The only difference in place is the fact the individually certified/serial product is measured piece by piece and the others are checked in a rigorous sampling process.

4. Are the Certificates in the package or need to be asked to Corning?

A. For Individually Serialized Certificate, yes. Electronic version of the calibration certificate for the lot certified products can be asked or downloaded with multiple copies if needed through Corning Life Sciences Website, mentioning catalog code, capacity and track lot number printed in the product.

5. How the Lot Certificate traceability is compared to the Individually Certified/Serialized and the regular Class A products? Are they equivalent or the same?

A. All products have traceability to international reference institution; N.I.S.T. (National Institute of Standards and Technology) in USA and CENAM (Centro Nacional de Metrología) in México, where all reference standards used in Corning's certification laboratories are verified. These entities are correspondent to INMETRO in Brazil, PTB in Germany, INTI in Argentina and other different countries from the international metrology system.

Like the Individual Cert/Serial, other Certified by Lot products show a serial number decorated with resistant enamel paint in its body that guarantees the traceability to the manufacturing process. The regular products can only be traceable by the data in the box label and it is not possible to determine the traceability when the product is in use in the laboratory.

Despite both Certificates are similar, there are small and important differences. While in the Certificate by Lot the

capacity represents the average volume and standard deviation found for that specific lot, the Individual Certificate shows the volume found for that unique and serialized piece. In both the track number is a warranty of the product to the end user.

For the Individually Cert/Serial products, the warranty and trust for the user is based in three relevant and linked points: calibration, training and technical management processes (that express almost 100 years of Corning experience) This reflect to a more rigorous internal process rigorous than ASTM E 542 and as consequence low expanded uncertainty of the method. The entire process is audited and verified by independent ISO 9001-2000 certification entity, BVQI and is operated in an ISO 17025 laboratory accredited by EMA (Entidad Mexicana de Acreditacion).

Certified by Lot products follows the same protocol but the results are expressed by the average of the volume found for the lot is supported by the standard deviation of the measures in many samples of the lot. This demonstrates the homogeneity of the manufacturing and calibration processes.

6. The fact the Individually Certified product is verified piece by piece and the Certified by Lot is verified by sampling procedures doesn't make the first one more appropriated for the laboratory results?

A. No, not exactly. The application of one and another depends on the specific objective of the laboratory and/or their specific protocols and needs. All laboratories have, after all errors and standard deviations that are specific for their analytical processes and protocols.

7. Why there are so many different types of products? Wouldn't be preferable only work with the Individually Certified/Serialized products?

A. Each laboratory attends different objectives and needs for its industry segment. No matter if it is industrial, services, control, reference, research, academic or any other; the laboratories demand different methods, practices, synthesis and analyses with different levels of safety and traceability.

That means that there are also different needs on safety and traceability for the same laboratory (not certified, lot or individual certified) and the related costs involved. Over 90% of all volumetric glassware used in the world does not require any certificate of traceability marked in its body and yet, this trend has been reduced in the recent years.

Such changes in demand are related to the level of errors admissible for the measurements in the laboratories. Those levels shall be determined for those that establish laboratory protocols for different practices. In most of the cases the tolerances in glassware attend tolerances from 1/10, 1/100 of milliliter and only a few really reach 1 micro liter. Therefore, not only the tolerances shall be considered, but how it affects the uncertainty allowed to ensure the minimum error for determined laboratory protocol. Moreover, to calculate aliquots most of the laboratories do not consider if the transfer pipet delivered 9.98ml to a 100.04ml volumetric flask, but that 10ml were diluted in 100ml. This is the base the laboratories take to estimate the admissible errors and tolerances for their practices.

In summary, the preference for working with not certified, lot certified or individually certified products shall consider:

- The requirements and limits of each analysis or process in the laboratory;
- The complexity and risks of having different tolerances and specifications for different practices;
- The operational economic factors for the laboratory.

8. How this is related to ISO 9001 and ISO 17025 standards?

A. Like in the previous question, the appropriate use is related to the laboratory needs for its analyses and practices. If the laboratory main objective is to control ISO 9001 process for industry or services, certified (individual or lot certified) or not certified volumetric glassware may be used, depending on the existing protocols for this specific laboratory practices and standards, established by those specialists in those process that need controls. However, if the laboratory control other laboratory results as a reference lab, the traceability of the volumetric glassware used in the practices is a mandatory. The choice between individual and lot serialized products is responsibility of the ones who establish the practices and protocols. The decision also considers the minimum tolerances and standards of the materials, glassware, instruments and software used. Moreover, that means protocols need to establish grades for the chemicals (ACS or other) and what materials and standards are needed for the volumetric glassware (low, mid or high expansion glass; ASTM, ISO, DIN, NBR) are minimally requested.

In all cases the knowledge of the equivalences in tolerances and uncertainties contained in each Standard it is a requirement. Therefore, if an ASTM Standard such as E 288 admits +/- 0.08ml tolerance for Class A, 100ml capacity volumetric flask or +/- 0,16ml for Class B and their equivalent tolerances ISO or DIN admit respectively +/- 0.10ml and +/- 0.1 ml, what would be the most appropriate for use in a determined laboratory? This is significant so the laboratory can guarantee close and similar reproducibility to other equivalent different laboratories, no matter they are control laboratory.

Then, reference laboratories will always use certified volumetric while the laboratories controlled by the reference one will chose the product that will attend the minimum safety requirement among non-certified, lot or individually certified volumetric. Good classic example is waste and potable water treatment companies where a central laboratory could play two roles: as a quality control lab for the treatment process and a reference laboratory that controls the results from other subsidiaries' laboratories.

9. Does the Certificate have a shelf life or validity?

A. According to the revisions of ASTM E 542 after 1994, "Borosilicate volumetric glassware (and therefore its certificate) will hold its calibration indefinitely provided that it is not exposed to hydrofluoric acid, hot phosphoric acid, or strong, hot alkalis, and that it is not heated above 150°C when dry. A frosting of the glass surface (viewed when dry) indicates that chemical attack has occurred, and recalibration may be in order. As a precaution, however, it is recommended that the glassware be recalibrated after ten years of service regardless of its appearance. Soda-lime volumetric glassware will become frosted with time because of attack from moisture in the atmosphere as well as from the chemicals mentioned above. In addition, it should not be heated above 90°C when dry. It is recommended, therefore, that it be recalibrated after five years of service unless frosting (viewed when dry) is observed sooner".

That implies if the product is used, clean and stored according to the manufacturer's recommendations, the calibration will hold indefinitely the same as in the day it was manufactured. Of course the user that knows all the variables in its process to establish rules and protocols for the validity of the volumetric products in its own laboratory and the use time before replacement. In other words even the

glassware is durable, in certain process might be needed to replace it or need to be recalibrated in 3 or 5 years, depending on the continued aggressiveness of the chemicals and temperature of use.

10. What are the differentials of PYREX® Certified by Lot volumetric compared to others available in the market?

- ✓ Corning adopts A.S.T.M. standards that in many cases are more rigorous than the Europeans, Asians or I.S.O. equivalents.
- ✓ Corning calibration laboratory it is accredited to ISO 17025 standard for volume by EMA that is internationally related by the ILAC (International Laboratory Accreditation Cooperation) membership.
- ✓ There are no manufactures with similar product line or others internationally that simultaneously offers A.S.T.M., it is accredited and have the complete portfolio
- ✓ Prices are more competitive than similar competitors' premium products.
- ✓ Costs are more competitive for the users compared to all involved to send non-certified volumetric to calibration services laboratories for certification.
- ✓ Corning logistic system in LA, ensure the products are more available compared to direct competitor.
- ✓ All products are manufactured with borosilicate glass while most of the European competitors use soda-lime glass for certain families like pipets.
- ✓ Warranty and reputation of almost 100 years of PYREX®

11. How is the price compared to the other existing certified products? What is the price to pay for the Certificate?

A. PYREX Individually Certif/Serialized Class A cost 20 to 50% less compared to send non-certified volumetric to calibration services. The user does not pay any addition for the PYREX certificates (individual or lot certificate).

12. What are the main applications for this line? Is it driven to specific industry segment?

A. The product is applicable to any laboratory that needs more control and traceability on its process. In addition it is ideal to those that have concerns about quality or precedence of the materials acquired and therefore need to make verification tests before the use in the lab, causing deviation of their functional responsibilities and unnecessary operational costs. Therefore, it is applicable to any industry segments on pharmaceuticals, petrochemical, food and beverage, R&D, services etc...

13. Is the product made with Pyrex glass?

A. PYREX® is a Corning Inc. registered brand and can only be used by Corning and its subsidiaries. It does not reflect any type of material. However the glass used in the products is indeed the same type that made PYREX brand reputation for resistance and quality for more than 100 years: low expansion borosilicate glass (< 33x10⁻⁷ cm/cm/°C) CORNING 7740, that attends to ASTM E 438 Type I, Class A.

SERIALIZED/CERTIFIED VOLUMETRIC

2105 PYREX® Buret, Serialized/Certified Class A, Colored Scale, PTFE Stopcock Plug



Cat. No.	Approx. Capacity (mL)	Grad. Increment (mL)	Tol.* (± mL)	Approx. O.D. x Height (mm)	Qty/Cs
2105-10	10	.05	.02	9 x 560	1
2105-25	25	.10	.03	12 x 560	1
2105-50	50	.10	.05	14 x 750	1
2105-100	100	.20	.10	18 x 752	1

2135 PYREX Buret, Serialized/Certified, Class A, Precision Bore, Straight

‡ Stopcock



Cat. No.	Approx. Capacity (mL)	Grad. Increment (mL)	Tol. (± mL)	Approx. O.D. x Height (mm)	‡ Stopcock** Bore (mm)	Qty/Cs
2135-10	10	.05	.02	9 x 560	2	1
2135-25	25	.10	.03	12 x 560	2	1
2135-50	50	.10	.05	14 x 755	2	1
2135-100	100	.20	.10	18 x 752	2	1

3002 PYREX Cylinder, Serialized/Certified, Class A, Single Metric Scale, Graduated, Calibrated To Contain, ‡ PYREX Stopper



Cat. No.	Capacity (mL) Qty/Cs	Grad. Increment (mL)	ASTM Tol. (± mL)	Approx. O.D. x Height (mm)	‡ Stopper No.	Qty/Cs
3002-10	10	0.1	.10	13 x 195	9	1
3002-25	25	0.2	.17	18 x 225	13	1
3002-50	50	1.0	.25	24 x 255	16	1
3002-100	100	1.0	.50	29 x 295	16	1
3002-250	250	2.0	1.0	39 x 385	22	1
3002-500	500	5.0	2.0	50 x 445	27	1
3002-1L	1000	10.0	3.0	64 x 520	32	1
3002-2L	2000	20.0	6.0	83 x 550	38	1

3062 PYREX Cylinder, Serialized/Certified, Class A, Single Metric Scale, Graduated, Calibrated To Deliver



Cat. No.	Capacity (mL)	Grad. Increment (mL)	ASTM Tol. (± mL)	Approx. O.D. x Height (mm)	Pk/Cs	Qty/Cs
3062-10	10	0.1	0.10	13 x 178	1	1
3062-25	25	0.2	0.17	18 x 192	1	1
3062-50	50	1.0	0.25	24 x 225	1	1
3062-100	100	1.0	0.50	29 x 254	1	1
3062-250	250	2.0	1.0	39 x 340	1	1
3062-500	500	5.0	2.0	50 x 390	1	1
3062-1L	1000	10.0	3.0	64 x 465	1	1
3062-2L	2000	20.0	6.0	83 x 520	1	1

*Tol. = tolerance.

** ‡ Standard taper. Designates interchangeable joints, stoppers, and stopcocks that comply with the requirements of Commercial Standard CS-21 published by N.I.S.T.

55680 PYREX Flask, Low Actinic, Volumetric, Class A, Certified/Serialized, PYREX

‡ Stopper



Cat. No.	Description	Capacity (mL)	Tol.* (± mL)	Approx. O.D. x Height (mm)	‡ Stopper	Qty/Cs
55680-10	Complete	10	0.02	28 x 99	9	1
55680-25	Complete	25	0.03	40 x 122	9	1
55680-50	Complete	50	0.05	51 x 152	9	1
55680-100	Complete	100	0.08	60 x 182	13	1
55680-200	Complete	200	0.10	74 x 214	13	1
55680-250	Complete	250	0.12	78 x 253	16	1
55680-500	Complete	500	0.20	100 x 288	19	1
55680-1L	Complete	1000	0.30	125 x 344	22	1
55680-2L	Complete	2000	0.50	158 x 390	27	1



5631 PYREX® Flask, Volumetric, Class A, Corning Certified and Serialized, Micro, PYREX ‡ Stopper

Cat. No.	Capacity (mL)	Tol. (± mL)	Approx. O.D x Height (mm)	‡ Stopper No.	Qty/Cs
5631-1	1	0.01	8 x 68	8	6
5631-2	2	.015	12 x 71	8	6
5631-5	5	0.02	17 x 80	8	6
5631-10	10	0.02	20 x 105	9	6
5631-25	25	0.03	29 x 132	9	6

For stoppers only, see Cat. No. 7650.

5680 PYREX Flask, Volumetric, Class A, Corning Certified and Serialized, PYREX ‡ Stopper



Cat. No.	Description	Capacity (mL)	Tol. (± mL)	Approx. O.D. x Height (mm)	‡ Stopper No.	Qty/Cs
5680-10	Complete	10	0.02	28 x 99	9	1
5680-25	Complete	25	0.03	40 x 122	9	1
5680-50	Complete	50	0.05	51 x 152	9	1
5680-100	Complete	100	0.08	60 x 182	13	1
5680-200	Complete	200	0.10	74 x 214	13	1
5680-250	Complete	250	0.12	78 x 253	16	1
5680-500	Complete	500	0.20	100 x 288	19	1
5680-1L	Complete	1000	0.30	125 x 344	22	1
5680-2L	Complete	2000	0.50	158 x 390	27	1

7070 PYREX Pipet, Reusable Glass, Serialized/Certified, Class A, Colored Markings, Measuring, Color-coded, Calibrated To Deliver



Cat. No.	Approx. Capacity	Grad. Increment	Tol. (± mL)	Approx. O.D. x Length (mm)	Qty/Pk	Qty/Cs
7070-1	1.0	0.1	.01	7 x 325	2	6
7070-2	2.0	0.1	.01	7 x 350	2	6
7070-5	5.0	0.1	.02	8 x 350	2	6
7070-10	10.0	0.1	.03	10 x 380	2	6
7070-25	25.0	0.1	.05	14 x 440	2	6

*Tol. = tolerance.

**‡ = Standard taper. Designates interchangeable joints, stoppers, and stopcocks that comply with the requirements of Commercial Standard CS-21 published by N.I.S.T.

7101 PYREX Pipet, Serialized/Certified, Class A, Volumetric, Color-coded, Colored Graduations



Cat. No.	Color Code	Capacity (mL)	Tol.* (± mL)	Approx. Length (mm)	Qty/Pk	Qty/Cs
7101-1	Blue	1.0	.006	313	2	6
7101-2	Orange	2.0	.006	333	2	6
7101-3	Black	3.0	.01	356	2	6
7101-4	Red	4.0	.01	370	2	6
7101-5	White	5.0	.01	392	2	6
7101-10	Red	10.0	.02	429	2	6
7101-15	Green	15.0	.03	445	2	6
7101-20	Yellow	20.0	.03	516	2	6
7101-25	Blue	25.0	.03	521	2	6
7101-50	—	50.0	.05	516	2	6
7101-100	—	100.0	.08	565	2	6

Do not pipet by mouth. We suggest using a mechanical pipetting device.

7103C PYREX® Pipet, Serialized/Certified, Class A, Volumetric, Color-coded, Colored Graduations, Calibrated To Contain, Calibrated To Deliver



Cat. No.	Color Code	Capacity (mL)	Tol. (± mL)	Approx. Length (mm)	Qty/Pk	Qty/Cs
7103C-1	Blue	1.0	.006	313	2	6
7103C-2	Orange	2.0	.006	333	2	6
7103C-3	Black	3.0	.01	356	2	6
7103C-4	Red	4.0	.01	370	2	6
7103C-5	White	5.0	.01	392	2	6
7103C-6	Orange	6.0	.01	420	2	6
7103C-7	Green	7.0	.01	420	2	6
7103C-8	Blue	8.0	.02	425	2	6
7103C-9	Black	9.0	.02	425	2	6
7103C-10	Red	10.0	.02	429	2	6
7103C-15	Green	15.0	.03	445	2	6
7103C-20	Yellow	20.0	.03	516	2	6
7103C-25	Blue	25.0	.03	521	2	6

Do not pipet by mouth. We suggest using a mechanical pipetting device.
*Tol. = tolerance.

CERTIFIED BY LOT VOLUMETRIC

Cat. No.	Description	Capac (ml)	Pcs/Cs
2103C-10	2103C-10 BURET CLASS A PYREX® ASTM E 287, LOT CERTIFIED, PTFE STOPCOCK	10	1
2103C-25	2103C-25 BURET CLASS A PYREX® ASTM E 287, LOT CERTIFIED, PTFE STOPCOCK	25	1
2103C-50	2103C-50 BURET CLASS A PYREX® ASTM E 287, LOT CERTIFIED, PTFE STOPCOCK	50	1
2130C-10	2130C-10 BURET CLASS A PYREX® ASTM E 287, LOT CERTIFIED, GLASS STOPCOCK	10	1
2130C-25	2130C-25 BURET CLASS A PYREX® ASTM E 287, LOT CERTIFIED, GLASS STOPCOCK	25	1
2130C-50	2130C-50 BURET CLASS A PYREX® ASTM E 287, LOT CERTIFIED, GLASS STOPCOCK	50	1
3022C-50	3022C-50 PYREX® GRADUATED CYLINDER LOT CERTIFIED HEXAGONAL GLASS BASE	50	6
3022C-100	3022C-100 PYREX® GRADUATED CYLINDER LOT CERTIFIED HEXAGONAL GLASS BASE	100	4
3022C-250	3022C-250 PYREX® GRADUATED CYLINDER LOT CERTIFIED HEXAGONAL GLASS BASE	250	4
3022C-500	3022C-500 PYREX® GRADUATED CYLINDER LOT CERTIFIED HEXAGONAL GLASS BASE	500	4
3022C-1000	3022C-1000 PYREX® GRADUATED CYLINDER LOT CERTIFIED HEXAGONAL GLASS BASE	1000	2
3022C-2000	3022C-2000 PYREX® GRADUATED CYLINDER LOT CERTIFIED HEXAGONAL GLASS BASE	2000	1
5640C-1	5640C-1 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	1	12
5640C-2	5640C-2 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	2	12
5640C-5	5640C-5 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	5	6
5640C-10	5640C-10 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	10	6
5640C-25	5640C-25 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	25	6
5640C-50	5640C-50 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	50	6
5640C-100	5640C-100 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	100	6
5640C-200	5640C-200 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	200	6
5640C-250	5640C-250 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	250	6
5640C-500	5640C-500 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	500	1
5640C-1000	5640C-1000 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	1000	1
5640C-2000	5640C-2000 PYREX® VOLUMETRIC FLASK CLASS A ASTM E 288, GLASS STOPPER, LOT CERTIFIED	2000	1
5642C-1	5642C-1 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	1	12
5642C-2	5642C-2 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	2	12
5642C-5	5642C-5 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	5	6
5642C-10	5642C-10 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	10	6
5642C-25	5642C-25 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	25	6
5642C-50	5642C-50 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	50	6
5642C-100	5642C-100 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	100	6
5642C-200	5642C-200 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	200	6
5642C-250	5642C-250 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	250	6
5642C-500	5642C-500 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	500	1
5642C-1000	5642C-1000 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	1000	1
5642C-2000	5642C-2000 PYREX® VOLUMETRIC FLASK, CLASS A ASTM E 288, PLASTIC STOPPER, CERT LOTE	2000	1
7100C-1	7100C-1 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	1	12
7100C-2	7100C-2 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	2	12
7100C-3	7100C-3 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	3	12
7100C-4	7100C-4 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	4	12
7100C-5	7100C-5 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	5	12
7100C-10	7100C-10 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	10	12
7100C-15	7100C-15 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	15	12
7100C-20	7100C-20 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	20	12
7100C-25	7100C-25 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	25	12
7100C-50	7100C-50 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	50	12
7100C-100	7100C-100 TRANSFER PIPET PYREX® CLASS A ASTM 969 LOT CERTIFIED	100	12

ACCREDITATION



entidad mexicana de acreditación s.c.

HAS ACCREDITED

CORNING MEXICANA S.A DE C.V.

AVIQUA CARRETERA A ROMA, Km 3.6, Deportivo Lagunillas
C.P. 66480, SAN NICOLAS DE LOS GARZA, NUEVO LEON.

As a calibration laboratory in accordance with the requirements established in the Mexican Standard NMX-EC-17025-IMNC-2006 (ISO/IEC 17025:2005) for technical competence in the field of:

Volume*

A laboratory's fulfillment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems - Requirements and are aligned with its pertinent requirements.

Maria Isabel Lopez Martinez
Maria Isabel Lopez Martinez
Executive Director



Accreditation: Y-58
Valid from: 2016-02-17*

*On the scope of accreditation provided in the booklet scope DECISION
The laboratory must present the evidence of this accreditation status and also the scope of accreditation with the calibration of this document.

PER 128/11/11



Certificate of Calibration

The volumetric glassware identified herein has been tested in accordance with ASTM standard E 542 and its calibration was found to comply with the Class A tolerance requirements of ASTM. All calibration equipment are checked regularly and are traceable to NIST / CENAM.

El volumétrico de vidrio abajo descrito ha sido probado de acuerdo con el estándar ASTM E 542, y su calibración se encuentra dentro de los requerimientos Clase A que manda ASTM. Todo el equipo de calibración es verificado frecuentemente y es rastreable a NIST/ CENAM.

Date of Calibration / Fecha de Calibración: 06/14/2016
Serial Number / Número de Serie: C142868
Catalog Number / Número de Catalogo: 6886-100
Description / Descripción: MATRAZ VOLUM. CERTIFICADO T. VIDRIO
Capacity Specification / Especificación de Capacidad: 100.000 ml +/- 0.0800 ml
Actual Capacity / Capacidad Real: 100.0426 ml
Expansion Uncertainty / Incertumbre Expansión: 0.043 (%) Factor K = 2
Master Weight Set / Juego Maestro de Pesas: 4000917785

Calibration Method: Gravimetric
Procedure: 1208/08 Calibración de volumétrico de vidrio

Environmental Conditions	
Temperature (°C)	20.88
Humidity (%)	62.15

Trials (Volume in ml)		
1	2	3
100.04	100.04	100.04

Calibrated By / Calibrado Por:
[Signature]
Verónica Lucero Diaz Padilla
Física Certificado Técnico

Authorized By / Autorizado Por:
[Signature]
Israel Cuellar
Ingeniero en Física

ISO 9001:2008
CERTIFIED
N°US05173-1

ISO/IEC 17025:2005
CERTIFIED LABORATORY
N° Y-58

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NOTES:

Horizontal lines for notes.

For more specific information on claims, visit the Certificates page at www.corning.com/lifesciences.

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