

Kinds of Cuvettes



About us

Cuvettes have become increasing demands in research and practice of science. The cuvettes we manufacture consist of standard cuvettes for most instruments, micro cuvettes, flow cuvettes, cylindrical cuvettes and so on. We have been in this work for over 30 years, our products are used in thousands of universities and research labs throughout the world.

We guarantee that our cuvettes will meet your high quality standard in all regards including: transmission, assembly, matching-everything. We pride ourselves in keeping our quality at paramount standard. Rest assured that each cuvette you order has been inspected through a meticulous quality control system. We can also make according to the specifications of an individual purchaser.

Our cuvettes, unless produced by design, are assembled using a fully fused method of construction. This technique ensures that cuvettes are fused into a single homogeneous entity using heat alone, without intermediate bonding materials. All cuvettes are then carefully annealed to remove any residual strain from the fusing process. This ensures maximum physical strength as well as resistance to solvents.

We are sure that we offer the products at the lowest prices and highest quality. Our factory always offers you high quality silica glass products, ranging from raw materials to high precision final products.

We sincerely welcome cooperation through diversified and flexible mechanism, and mutual benefit, win-win cooperation on the basis of common development.

We are looking forward to be your good partner.



Technical Data

Specification Data (Empty cell)

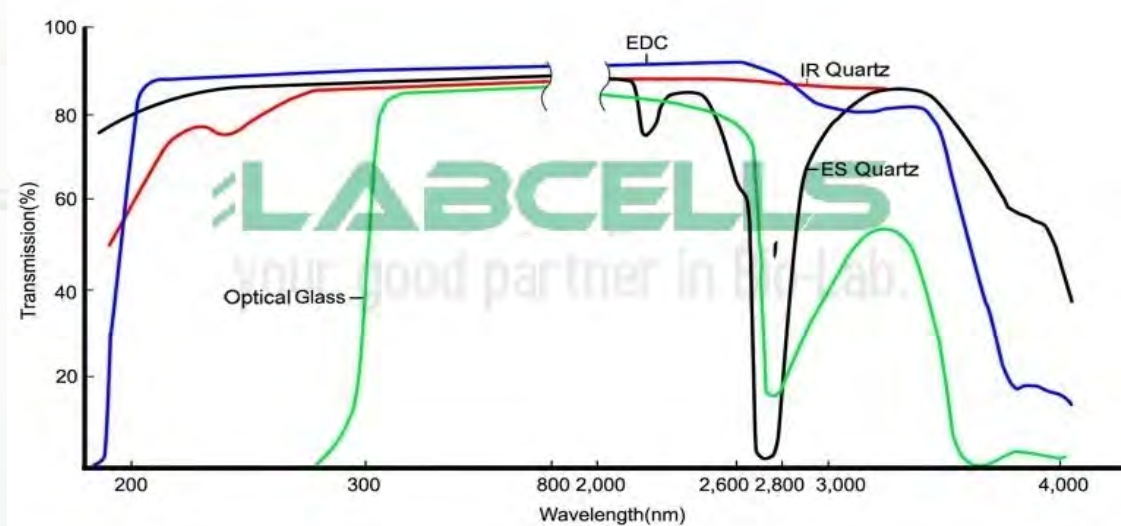
Material	Code	Usable Range	Transmission	Deviations in matching
Optical glass	G	320~2500nm	350nm About82%	350nm MAX0.5%
ES quartz glass	Q	190~2500nm	200nm About82%	200nm MAX0.5%
IR quartz glass	I	220~3500nm	2730nm About82%	2730nm MAX0.5%

ES Quartz is a slightly better grade of quartz than UV Quartz and offers superior transmission in the lower nm range. That is to say, the usable range of ES Quartz includes UV Quartz whose range is 220~2500nm. So the material of our products chooses ES Quartz.

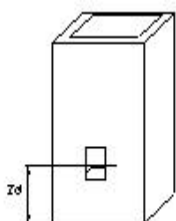
The data shows transmission characteristics of empty cuvettes made from different materials. (The empty cuvettes: thickness1.25mm*2, including surface reflection losses.)

Transmission is a percentage of how well light passes through the windows of a cell at different wavelengths. Transmission is measured on a scale of 0-100%.

Transmission can vary greatly depending on the wavelength range being worked in and the material that the cell or vial is made from.



Z Dimension (Zd)



The Z dimension is the height from the bottom of the cell to the center of its sample chamber. In case of using a small volume cell in a spectrophotometer or fluorometer, the Z dimension should be the same as the height of the instrument's light beam. The height of the light beam is usually 8.5mm, 15mm or 20mm, depending on the manufacturer. When ordering a cell which has more than one Z dimension available, it is necessary to specify the required Z dimension.

Lightpath

Lightpath is the distant between the interior polished walls of a cuvette. Lightpaths are measured in millimeters and can vary from 0.5 mm up to 200 mm. The most common lightpath in use today is 10 mm. Most manufacturers provide a standard 10 mm rectangular cuvette holder with their machines; however this should be confirmed with the manufacturer because not all machines may be able to support a 10 mm holder.

FAQS

● How can I download the catalogs (PDF)?

Firstly you can surf our website <http://www.labcells.com> to download the catalogs (PDF) directly to your computer to read with an Adobe Acrobat reader. Also you can contact us directly by email, MSN or Skype for requesting a copy of the catalog you need.

● What does the ES stand for?

- 1、ES stands for Extrasil. This is our special brand of quartz that our factory produces.
- 2、ES stands for a synthetic quartz with little to no impurities.
- 3、ES quartz is also a suprasil equivalent.



● Can you manufacture custom cuvettes?

Yes, we do! We can help you through every stage of the production process.

The only information we need to get started with making a custom cuvette is rough sketch that specifies the following:

- 1、All relevant dimension and dimension tolerances (If tolerances are not provided, we will use our standard tolerances)
- 2、Which surfaces need to be polished.
- 3、Quantities required.
- 4、Deadline for quotation and/or manufacturing, if applicable.

We do not except responsibility for any dimension not explicitly provided by the customer.

● Are your cuvettes matched?

Sure! All of our glass, ES Quartz, and IR Quartz cuvettes come automatically matched. Whether you order 2 cuvettes or 30 cuvettes, all cuvettes will be matched.

● How do matching number work?

We engrave a number on each we manufacture. We call these numbers "Matching Numbers." The first letter represents the material. The first number ranges from 1 to 8 depending on the kind of cuvettes. The second number shows that the cuvette is covered by lid or stopper. The third and fourth number represents the pathlength. The last one is the inside width. However some special cuvettes have their special matching number. You can find the matching number you need from our product catalog.

● Will your cuvettes work in my instruments?

Most of our cuvettes are designed to fit into a standard cell holder which is 12.5x12.5mm. It is the best to measure the cuvette holder in your machine and see what the dimensions are. We also have many different cuvettes available for you to choose. So if your holder is not standard one, you can contact us and we will be happy to assist you in choosing the correct cuvette for your instrument.

● How do I clean my cuvettes?

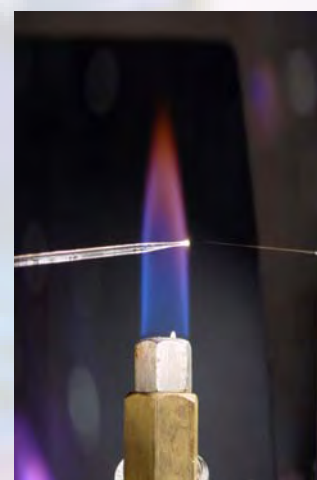
Firstly, we should know the importance of cleaning the cuvettes. Cleaning cells is the foundation of any spectrophotometer or Fluorometric analysis. The residue from previous analysis will cause inaccuracies, low sensitivity and lack of precision. More important, it will waste your time! Also inspect the condition of the cells. If they are cracked, chipped or scratched it is important to replace the cells with new ones as your time is more valuable than the cost of new cells.

The table below will give you some suggestions for cleaning:

Solvent	Material	Suggested Cleaning Methods
Aqueous	Protein, DNA, Biologics	Warm water with detergent, Mild acid rinse, Copious water rinse
Aqueous	Salt solutions	Strong acid rinse, copious water rinse
Aqueous	Basic solutions	Warm water with detergent, Mild acid rinse, Copious water rinse
Organic	Oil based	Rinse with solvent, Warm water with detergent, Mild acid rinse, Copious water rinse
Organic	Alcohol solutions	Rinse with solvent, Copious water rinse
Organic	Acidic solutions	Rinse with solvent, Copious water rinse
Organic	Basic solutions	Rinse with solvent, Mild acid rinse, Copious water rinse
Definitions:		
Mild Acid		Equalivent to 0.1mol/l HCl
Strong Acid		Equalivent to 1 mol/l HCl
Solvent rinse		Rinse with the solvent that solvated your sample in the first place!
Copious water rinse		Use a pure water like deionized, distilled or RO and rinse at least 10 times
Detergent		Use a neutral pH detergent if available but acid wash and water rinse to remove detergent residues
Ultrasonic Cleaners		We do not recommend the use of ultrasonic cleaning baths with cells. Each bath generates a different frequency and if your bath operates at the resonant frequency of a cell, the cell will break. We do not warranty our cells for cleaning in an ultrasonic cleaner.

Products specifications:

1. Accurate repeatability, Precision Cells cuvettes are made with only the highest quality quartz and glass materials.
2. Hand made, ensuring the highest quality optical polish with no defects.
3. Every cell is thoroughly inspected before leaving the factory.
4. Precision Cells cuvettes are guaranteed to give you the best optical transmission.
5. Fire fused to ensure the best bonding.
6. Lid Material: PTFE, glass Stopper Material: PTFE



✓ Spectrophotometers cuvettes

Spectrometers cuvettes are those cuvettes which always have two windows polished.

01. Standard rectangular cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Standard cuvettes with lid and round bottom	45x12.5x3.5	1	10	0.35	Q13001	I 13001	G13001
	45x12.5x4.5	2	10	0.7	Q13002	I 13002	G13002
	45x12.5x7.5	5	10	1.7	Q13005	I 13005	G13005
	45x12.5x12.5	10	10	3.5	Q13010	I 13010	G13010
	45x12.5x22.5	20	10	7.0	Q13020	I 13020	G13020
	45x12.5x32.5	30	10	10.5	Q13030	I 13030	G13030
	45x12.5x42.5	40	10	14.0	Q13040	I 13040	G13040
	45x12.5x52.5	50	10	17.5	Q13050	I 13050	G13050
	45x12.5x102.5	100	10	35.0	Q13100	I 13100	G13100
 Standard cuvettes with stopper and round bottom	45x12.5x3.5	1	10	0.35	Q14001	I 14001	G14001
	45x12.5x4.5	2	10	0.7	Q14002	I 14002	G14002
	45x12.5x7.5	5	10	1.7	Q14005	I 14005	G14005
	45x12.5x12.5	10	10	3.5	Q14010	I 14010	G14010
	45x12.5x22.5	20	10	7.0	Q14020	I 14020	G14020
	45x12.5x32.5	30	10	10.5	Q14030	I 14030	G14030
	45x12.5x42.5	40	10	14.0	Q14040	I 14040	G14040
	45x12.5x52.5	50	10	17.5	Q14050	I 14050	G14050
	45x12.5x102.5	100	10	35.0	Q14100	I 14100	G14100
 Standard cuvettes with lid and leve bottom	45x12.5x3.5	1	10	0.35	Q15001	I 15001	G15001
	45x12.5x4.5	2	10	0.70	Q15002	I 15002	G15002
	45x12.5x7.5	5	10	1.7	Q15005	I 15005	G15005
	45x12.5x12.5	10	10	3.5	Q15010	I 15010	G15010
	45x12.5x22.5	20	10	7.0	Q15020	I 15020	G15020
	45x12.5x32.5	30	10	10.5	Q15030	I 15030	G15030
	45x12.5x42.5	40	10	14	Q15040	I 15040	G15040
	45x12.5x52.5	50	10	17.5	Q15050	I 15050	G15050
	45x12.5x102.5	100	10	35	Q15100	I 15100	G15100
 Standard cuvettes with stopper and leve bottom	45x12.5x3.5	1	10	0.35	Q16001	I 16001	G16001
	45x12.5x4.5	2	10	0.7	Q16002	I 16002	G16002
	45x12.5x7.5	5	10	1.7	Q16005	I 16005	G16005
	45x12.5x12.5	10	10	3.5	Q16010	I 16010	G16010
	45x12.5x22.5	20	10	7	Q16020	I 16020	G16020
	45x12.5x32.5	30	10	10.5	Q16030	I 16030	G16030
	45x12.5x42.5	40	10	14	Q16040	I 16040	G16040
	45x12.5x52.5	50	10	17.5	Q16050	I 16050	G16050
	45x12.5x102.5	100	10	35	Q16100	I 16100	G16100

02. Micro cuvettes with black walls

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Micro cells with black walls and lid	45x12.5x7.5	5	1	0.17	Q31051	I 31051	G31051
	45x12.5x12.5	10	1	0.35	Q31101	I 31101	G31101
	45x12.5x22.5	20	1	0.7	Q31201	I 31201	G31201
	45x12.5x32.5	30	1	1	Q31301	I 31301	G31301
	45x12.5x42.5	40	1	1.4	Q31401	I 31401	G31401
	45x12.5x52.5	50	1	1.75	Q31501	I 31501	G31501
	45x12.5x7.5	5	2	0.35	Q31052	I 31052	G31052
	45x12.5x12.5	10	2	0.7	Q31102	I 31102	G31102
	45x12.5x22.5	20	2	1.4	Q31202	I 31202	G31202
	45x12.5x32.5	30	2	2.1	Q31302	I 31302	G31302
	45x12.5x42.5	40	2	2.8	Q31402	I 31402	G31402
	45x12.5x52.5	50	2	3.5	Q31502	I 31502	G31502
	45x12.5x7.5	5	3	0.5	Q31053	I 31053	G31053
	45x12.5x12.5	10	3	1	Q31103	I 31103	G31103
	45x12.5x22.5	20	3	2.1	Q31203	I 31203	G31203
	45x12.5x32.5	30	3	3.15	Q31303	I 31303	G31303
	45x12.5x42.5	40	3	4.2	Q31403	I 31403	G31403
	45x12.5x52.5	50	3	5.25	Q31503	I 31503	G31503
 Micro cells with black walls and stopper	45x12.5x7.5	5	1	0.17	Q32051	I 32051	G32051
	45x12.5x12.5	10	1	0.35	Q32101	I 32101	G32101
	45x12.5x22.5	20	1	0.7	Q32201	I 32201	G32201
	45x12.5x32.5	30	1	1	Q32301	I 32301	G32301
	45x12.5x42.5	40	1	1.4	Q32401	I 32401	G32401
	45x12.5x52.5	50	1	1.75	Q32501	I 32501	G32501
	45x12.5x7.5	5	2	0.35	Q32052	I 32052	G32052
	45x12.5x12.5	10	2	0.7	Q32102	I 32102	G32102
	45x12.5x22.5	20	2	1.4	Q32202	I 32202	G32202
	45x12.5x32.5	30	2	2.1	Q32302	I 32302	G32302
	45x12.5x42.5	40	2	2.8	Q32402	I 32402	G32402
	45x12.5x52.5	50	2	3.5	Q32502	I 32502	G32502
	45x12.5x7.5	5	3	0.5	Q32053	I 32053	G32053
	45x12.5x12.5	10	3	1	Q32103	I 32103	G32103
	45x12.5x22.5	20	3	2.1	Q32203	I 32203	G32203
	45x12.5x32.5	30	3	3.15	Q32303	I 32303	G32303
	45x12.5x42.5	40	3	4.2	Q32403	I 32403	G32403
	45x12.5x52.5	50	3	5.25	Q32503	I 32503	G32503
 Micro cells with black walls and lid	25x12.5x7.5	5	1	0.07	Q33051	I 33051	G33051
	25x12.5x12.5	10	1	0.15	Q33101	I 33101	G33101
	25x12.5x22.5	20	1	0.3	Q33201	I 33201	G33201
	25x12.5x32.5	30	1	0.45	Q33301	I 33301	G33301
	25x12.5x42.5	40	1	0.6	Q33401	I 33401	G33401
	25x12.5x52.5	50	1	0.75	Q33501	I 33501	G33501
	25x12.5x7.5	5	2	0.15	Q33052	I 33052	G33052
	25x12.5x12.5	10	2	0.3	Q33102	I 33102	G33102
	25x12.5x22.5	20	2	0.6	Q33202	I 33202	G33202
	25x12.5x32.5	30	2	0.9	Q33302	I 33302	G33302
	25x12.5x42.5	40	2	1.2	Q33402	I 33402	G33402
	25x12.5x52.5	50	2	1.5	Q33502	I 33502	G33502

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Micro cells with black walls and lid	25x12.5x7.5	5	3	0.23	Q33053	I 33053	G33053
	25x12.5x12.5	10	3	0.45	Q33103	I 33103	G33103
	25x12.5x22.5	20	3	0.9	Q33203	I 33203	G33203
	25x12.5x32.5	30	3	1.35	Q33303	I 33303	G33303
	25x12.5x42.5	40	3	1.8	Q33403	I 33403	G33403
	25x12.5x52.5	50	3	2.25	Q33503	I 33503	G33503
 Micro cells with black walls and stopper	25x12.5x7.5	5	1	0.07	Q34051	I 34051	G34051
	25x12.5x12.5	10	1	0.15	Q34101	I 34101	G34101
	25x12.5x22.5	20	1	0.3	Q34201	I 34201	G34201
	25x12.5x32.5	30	1	0.45	Q34301	I 34301	G34301
	25x12.5x42.5	40	1	0.6	Q34401	I 34401	G34401
	25x12.5x52.5	50	1	0.75	Q34501	I 34501	G34501
	25x12.5x7.5	5	2	0.15	Q34052	I 34052	G34052
	25x12.5x12.5	10	2	0.3	Q34102	I 34102	G34102
	25x12.5x22.5	20	2	0.6	Q34202	I 34202	G34202
	25x12.5x32.5	30	2	0.9	Q34302	I 34302	G34302
	25x12.5x42.5	40	2	1.2	Q34402	I 34402	G34402
	25x12.5x52.5	50	2	1.5	Q34502	I 34502	G34502
	25x12.5x7.5	5	3	0.23	Q34053	I 34053	G34053
	25x12.5x12.5	10	3	0.45	Q34103	I 34103	G34103
	25x12.5x22.5	20	3	0.9	Q34203	I 34203	G34203
	25x12.5x32.5	30	3	1.35	Q34303	I 34303	G34303
	25x12.5x42.5	40	3	1.8	Q34403	I 34403	G34403
	25x12.5x52.5	50	3	2.25	Q34503	I 34503	G34503

03. Micro cuvettes with frosted walls

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Micro cells with frosted walls and lid	45x12.5x7.5	5	1	0.17	Q41051	I 41051	G41051
	45x12.5x12.5	10	1	0.35	Q41101	I 41101	G41101
	45x12.5x22.5	20	1	0.7	Q41201	I 41201	G41201
	45x12.5x32.5	30	1	1	Q41301	I 41301	G41301
	45x12.5x42.5	40	1	1.4	Q41401	I 41401	G41401
	45x12.5x52.5	50	1	1.75	Q41501	I 41501	G41501
	45x12.5x7.5	5	2	0.35	Q41052	I 41052	G41052
	45x12.5x12.5	10	2	0.7	Q41102	I 41102	G41102
	45x12.5x22.5	20	2	1.4	Q41202	I 41202	G41202
	45x12.5x32.5	30	2	2.1	Q41302	I 41302	G41302
	45x12.5x42.5	40	2	2.8	Q41402	I 41402	G41402
	45x12.5x52.5	50	2	3.5	Q41502	I 41502	G41502
	45x12.5x7.5	5	3	0.5	Q41053	I 41053	G41053
	45x12.5x12.5	10	3	1	Q41103	I 41103	G41103
	45x12.5x22.5	20	3	2.1	Q41203	I 41203	G41203
	45x12.5x32.5	30	3	3.15	Q41303	I 41303	G41303
	45x12.5x42.5	40	3	4.2	Q41403	I 41403	G41403
	45x12.5x52.5	50	3	5.25	Q41503	I 41503	G41503

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Micro cells with frosted walls and stopper	45x12.5x7.5	5	1	0.17	Q42051	I 42051	G42051
	45x12.5x12.5	10	1	0.35	Q42101	I 42101	G42101
	45x12.5x22.5	20	1	0.7	Q42201	I 42201	G42201
	45x12.5x32.5	30	1	1	Q42301	I 42301	G42301
	45x12.5x42.5	40	1	1.4	Q42401	I 42401	G42401
	45x12.5x52.5	50	1	1.75	Q42501	I 42501	G42501
	45x12.5x7.5	5	2	0.35	Q42052	I 42052	G42052
	45x12.5x12.5	10	2	0.7	Q42102	I 42102	G42102
	45x12.5x22.5	20	2	1.4	Q42202	I 42202	G42202
	45x12.5x32.5	30	2	2.1	Q42302	I 42302	G42302
	45x12.5x42.5	40	2	2.8	Q42402	I 42402	G42402
	45x12.5x52.5	50	2	3.5	Q42502	I 42502	G42502
	45x12.5x7.5	5	3	0.5	Q42053	I 42053	G42053
	45x12.5x12.5	10	3	1	Q42103	I 42103	G42103
	45x12.5x22.5	20	3	2.1	Q42203	I 42203	G42203
	45x12.5x32.5	30	3	3.15	Q42303	I 42303	G42303
	45x12.5x42.5	40	3	4.2	Q42403	I 42403	G42403
	45x12.5x52.5	50	3	5.25	Q42503	I 42503	G42503
 Micro cells with frosted walls and lid	25x12.5x7.5	5	1	0.07	Q43051	I 43051	G43051
	25x12.5x12.5	10	1	0.15	Q43101	I 43101	G43101
	25x12.5x22.5	20	1	0.3	Q43201	I 43201	G43201
	25x12.5x32.5	30	1	0.45	Q43301	I 43301	G43301
	25x12.5x42.5	40	1	0.6	Q43401	I 43401	G43401
	25x12.5x52.5	50	1	0.75	Q43501	I 43501	G43501
	25x12.5x7.5	5	2	0.15	Q43052	I 43052	G43052
	25x12.5x12.5	10	2	0.3	Q43102	I 43102	G43102
	25x12.5x22.5	20	2	0.6	Q43202	I 43202	G43202
	25x12.5x32.5	30	2	0.9	Q43302	I 43302	G43302
	25x12.5x42.5	40	2	1.2	Q43402	I 43402	G43402
	25x12.5x52.5	50	2	1.5	Q43502	I 43502	G43502
	25x12.5x7.5	5	3	0.23	Q43053	I 43053	G43053
	25x12.5x12.5	10	3	0.45	Q43103	I 43103	G43103
	25x12.5x22.5	20	3	0.9	Q43203	I 43203	G43203
	25x12.5x32.5	30	3	1.35	Q43303	I 43303	G43303
	25x12.5x42.5	40	3	1.8	Q43403	I 43403	G43403
	25x12.5x52.5	50	3	2.25	Q43503	I 43503	G43503
 Micro cells with frosted walls and stopper	25x12.5x7.5	5	1	0.07	Q44051	I 44051	G44051
	25x12.5x12.5	10	1	0.15	Q44101	I 44101	G44101
	25x12.5x22.5	20	1	0.3	Q44201	I 44201	G44201
	25x12.5x32.5	30	1	0.45	Q44301	I 44301	G44301
	25x12.5x42.5	40	1	0.6	Q44401	I 44401	G44401
	25x12.5x52.5	50	1	0.75	Q44501	I 44501	G44501
	25x12.5x7.5	5	2	0.15	Q44052	I 44052	G44052
	25x12.5x12.5	10	2	0.3	Q44102	I 44102	G44102
	25x12.5x22.5	20	2	0.6	Q44202	I 44202	G44202

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Micro cells with frosted walls and stopper	25x12.5x32.5	30	2	0.9	Q44302	I 44302	G44302
	25x12.5x42.5	40	2	1.2	Q44402	I 44402	G44402
	25x12.5x52.5	50	2	1.5	Q44502	I 44502	G44502
	25x12.5x7.5	5	3	0.23	Q44053	I 44053	G44053
	25x12.5x12.5	10	3	0.45	Q44103	I 44103	G44103
	25x12.5x22.5	20	3	0.9	Q44203	I 44203	G44203
	25x12.5x32.5	30	3	1.35	Q44303	I 44303	G44303
	25x12.5x42.5	40	3	1.8	Q44403	I 44403	G44403
	25x12.5x52.5	50	3	2.25	Q44503	I 44503	G44503

04. Semi-Micro cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Semi-Micro cells with black walls and lid	45x12.5x7.5	5	4	0.7	Q31054	I 31054	G31054
	45x12.5x12.5	10	4	1.4	Q31104	I 31104	G31104
	45x12.5x22.5	20	4	2.8	Q31204	I 31204	G31204
	45x12.5x32.5	30	4	4.2	Q31304	I 31304	G31304
	45x12.5x42.5	40	4	5.6	Q31404	I 31404	G31404
	45x12.5x52.5	50	4	7	Q31504	I 31504	G31504
	45x12.5x7.5	5	5	0.85	Q31055	I 31055	G31055
	45x12.5x12.5	10	5	1.75	Q31105	I 31105	G31105
	45x12.5x22.5	20	5	3.5	Q31205	I 31205	G31205
	45x12.5x32.5	30	5	5.25	Q31305	I 31305	G31305
	45x12.5x42.5	40	5	7	Q31405	I 31405	G31405
	45x12.5x52.5	50	5	8.75	Q31505	I 31505	G31505
 Semi-Micro cells with black walls and stopper	45x12.5x7.5	5	4	0.7	Q32054	I 32054	G32054
	45x12.5x12.5	10	4	1.4	Q32104	I 32104	G32104
	45x12.5x22.5	20	4	2.8	Q32204	I 32204	G32204
	45x12.5x32.5	30	4	4.2	Q32304	I 32304	G32304
	45x12.5x42.5	40	4	5.6	Q32401	I 32404	G32404
	45x12.5x52.5	50	4	7	Q32504	I 32504	G32504
 Semi-Micro cells with black walls and lid	25x12.5x7.5	5	4	0.7	Q33054	I 33054	G33054
	25x12.5x12.5	10	4	1.4	Q33104	I 33104	G33104
	25x12.5x22.5	20	4	2.8	Q33204	I 33204	G33204
	25x12.5x32.5	30	4	4.2	Q33304	I 33304	G33304
	25x12.5x42.5	40	4	5.6	Q33404	I 33404	G33404
	25x12.5x52.5	50	4	7	Q33504	I 33504	G33504
	25x12.5x7.5	5	5	0.85	Q33055	I 33055	G33055
	25x12.5x12.5	10	5	1.75	Q33105	I 33105	G33105
	25x12.5x22.5	20	5	3.5	Q33205	I 33205	G33205
	25x12.5x32.5	30	5	5.25	Q33305	I 33305	G33305
	25x12.5x42.5	40	5	7	Q33405	I 33405	G33405
	25x12.5x52.5	50	5	8.75	Q33505	I 33505	G33505

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Semi-Micro cells with black walls and stopper	25x12.5x7.5	5	4	0.7	Q34054	I 34054	G34054
	25x12.5x12.5	10	4	1.4	Q34104	I 34104	G34104
	25x12.5x22.5	20	4	2.8	Q34204	I 34204	G34204
	25x12.5x32.5	30	4	4.2	Q34304	I 34304	G34304
	25x12.5x42.5	40	4	5.6	Q34404	I 34404	G34404
	25x12.5x52.5	50	4	7	Q34504	I 34504	G34504
 Semi-Micro cell with frosted walls and lid	45x12.5x7.5	5	4	0.7	Q41054	I 41054	G41054
	45x12.5x12.5	10	4	1.4	Q41104	I 41104	G41104
	45x12.5x22.5	20	4	2.8	Q41204	I 41204	G41204
	45x12.5x32.5	30	4	4.2	Q41304	I 41304	G41304
	45x12.5x42.5	40	4	5.6	Q41404	I 41404	G41404
	45x12.5x52.5	50	4	7	Q41504	I 41504	G41504
	45x12.5x7.5	5	5	0.85	Q41055	I 41055	G41055
	45x12.5x12.5	10	5	1.75	Q41105	I 41105	G41105
	45x12.5x22.5	20	5	3.5	Q41205	I 41205	G41205
	45x12.5x32.5	30	5	5.25	Q41305	I 41305	G41305
	45x12.5x42.5	40	5	7	Q41405	I 41405	G41405
	45x12.5x52.5	50	5	8.75	Q41505	I 41505	G41505
 Semi-Micro cells with frosted walls and stopper	45x12.5x7.5	5	4	0.7	Q42054	I 42054	G42054
	45x12.5x12.5	10	4	1.4	Q42104	I 42104	G42104
	45x12.5x22.5	20	4	2.8	Q42204	I 42204	G42204
	45x12.5x32.5	30	4	4.2	Q42304	I 42304	G42304
	45x12.5x42.5	40	4	5.6	Q42401	I 42404	G42404
	45x12.5x52.5	50	4	7	Q42504	I 42504	G42504
 Semi-Micro cells with frosted walls and lid	25x12.5x7.5	5	4	0.7	Q43054	I 43054	G43054
	25x12.5x12.5	10	4	1.4	Q43104	I 43104	G43104
	25x12.5x22.5	20	4	2.8	Q43204	I 43204	G43204
	25x12.5x32.5	30	4	4.2	Q43304	I 43304	G43304
	25x12.5x42.5	40	4	5.6	Q43404	I 43404	G43404
	25x12.5x52.5	50	4	7	Q43504	I 43504	G43504
	25x12.5x7.5	5	5	0.85	Q43055	I 43055	G43055
	25x12.5x12.5	10	5	1.75	Q43105	I 43105	G43105
	25x12.5x22.5	20	5	3.5	Q43205	I 43205	G43205
	25x12.5x32.5	30	5	5.25	Q43305	I 43305	G43305
	25x12.5x42.5	40	5	7	Q43405	I 43405	G43405
	25x12.5x52.5	50	5	8.75	Q43505	I 43505	G43505
 Semi-Micro cells with frosted walls and stopper	25x12.5x7.5	5	4	0.7	Q44054	I 44054	G44054
	25x12.5x12.5	10	4	1.4	Q44104	I 44104	G44104
	25x12.5x22.5	20	4	2.8	Q44204	I 44204	G44204
	25x12.5x32.5	30	4	4.2	Q44304	I 44304	G44304
	25x12.5x42.5	40	4	5.6	Q44404	I 44404	G44404
	25x12.5x52.5	50	4	7	Q44504	I 44504	G44504

05. Sub-Micro cuvettes

Z Dimension (Zd) :A=8.5mm, B=15mm

Picture and Name	Outside Dim HxWxD mm	Light Height mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Sub-Micro cells with black walls and lid	45x12.5x12.5	5	1	0.05	Q35051A/B	I 35051A/B	G35051A/B
	45x12.5x12.5	5	2	0.1	Q35052A/B	I 35052A/B	G35052A/B
	45x12.5x12.5	5	4	0.2	Q35054A/B	I 35054A/B	G35054A/B
	45x12.5x12.5	10	1	0.1	Q35101A/B	I 35101A/B	G35101A/B
	45x12.5x12.5	10	2	0.2	Q35102A/B	I 35102A/B	G35102A/B
	45x12.5x12.5	10	4	0.4	Q35104A/B	I 35104A/B	G35104A/B
 Sub-Micro cells with black walls and stopper	45x12.5x12.5	5	1	0.05	Q36051A/B	I 36051A/B	G36051A/B
	45x12.5x12.5	5	2	0.1	Q36052A/B	I 36052A/B	G36052A/B
	45x12.5x12.5	5	4	0.2	Q36054A/B	I 36054A/B	G36054A/B
	45x12.5x12.5	10	1	0.1	Q36101A/B	I 36101A/B	G36101A/B
	45x12.5x12.5	10	2	0.2	Q36102A/B	I 36102A/B	G36102A/B
	45x12.5x12.5	10	4	0.4	Q36104A/B	I 36104A/B	G36104A/B

06. Self masking flow cuvettes

Z Dimension (Zd) :A=8.5mm, B=15mm

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Self masking flow cuvettes	45x12.5x12.5	10	Φ1.5	0.018	Q51105	I 51105	G51105
	45x12.5x7.5	5	Φ2	0.015	Q51052	I 51052	G51052
	45x12.5x12.5	10	Φ2	0.3	Q51102	I 51102	G51102
	45x12.5x22.5	20	Φ2	0.6	Q51202	I 51202	G51202
	45x12.5x7.5	5	Φ3	0.035	Q51053	I 51053	G51053
	45x12.5x12.5	10	Φ3	0.07	Q51103	I 51103	G51103
	45x12.5x22.5	20	Φ3	0.14	Q51203	I 51203	G51203
	45x12.5x32.5	30	Φ3	0.21	Q51303	I 51303	G51303
 Self masking flow cuvettes	45x12.5x7.5	5	4x12	0.24	Q52054A/B	I 52054A/B	G52054A/B
	45x12.5x12.5	10	4x12	0.48	Q52104A/B	I 52104A/B	G52104A/B
	45x12.5x22.5	20	4x12	1.0	Q52204A/B	I 52204A/B	G52204A/B
	45x12.5x32.5	30	4x12	1.5	Q52304A/B	I 52304A/B	G52304A/B
 Self masking flow cuvettes	45x12.5x12.5	10	Φ1.5	0.018	Q53105	I 53105	G53105
	45x12.5x22.5	20	Φ1.5	0.036	Q53205	I 53205	G53205
	45x12.5x32.5	30	Φ1.5	0.055	Q53305	I 53305	G53305
	45x12.5x12.5	10	Φ2	0.03	Q53102	I 53102	G53102
	45x12.5x22.5	20	Φ2	0.06	Q53202	I 53202	G53202
	45x12.5x32.5	30	Φ2	0.09	Q53302	I 53302	G53302

07. Tablet Dissolution Cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Tablet dissolution cuvettes With stainless tube	35x12.5x12.5	10	φ1.5	0.018	Q54105	I 54105	G54105
	35x12.5x22.5	20	φ1.5	0.036	Q54205	I 54205	G54205
	35x12.5x32.5	30	φ1.5	0.055	Q54305	I 54305	G54305
	35x12.5x12.5	10	φ2	0.03	Q54102	I 54102	G54102
	35x12.5x22.5	20	φ2	0.06	Q54202	I 54202	G54202
	35x12.5x32.5	30	φ2	0.09	Q54302	I 54302	G54302
 Tablet dissolution cuvettes With M6 threaded connectors and PTFE tube	35x12.5x12.5	10	φ1.5	0.018	Q55105	I 55105	G55105
	35x12.5x22.5	20	φ1.5	0.036	Q55205	I 55205	G55205
	35x12.5x32.5	30	φ1.5	0.055	Q55305	I 55305	G55305
	35x12.5x12.5	10	φ2	0.03	Q55102	I 55102	G55102
	35x12.5x22.5	20	φ2	0.06	Q55202	I 55202	G55202
	35x12.5x32.5	30	φ2	0.09	Q55302	I 55302	G55302
 Tablet dissolution cuvettes With M6 threaded connectors and PTFE tube	45x12.5x12.5	10	1	0.05	Q56151	I 56151	G56151
	45x12.5x12.5	10	1	0.1	Q56101	I 56101	G56101
	45x12.5x12.5	10	2	0.1	Q56152	I 56152	G56152
	45x12.5x12.5	10	2	0.16	Q56182	I 56182	G56182
	45x12.5x12.5	10	2	0.2	Q56102	I 56102	G56102

08.Cylindrical cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
	φ22x12.5	10	φ19	2.8	Q61019	I 61019	G61019
	φ22x22.5	20	φ19	5.7	Q62019	I 62019	G62019
	φ22x52.5	50	φ19	14.0	Q65019	I 65019	G65019
	φ22x102.5	100	φ19	28	Q60019	I 60019	G60019

09.Tandem (Divided) cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Tandem(Divided) Cuvettes with lid	45x12.5x12.5	10	10	3.5	Q15010D	I 15010D	G15010D
 Tandem(Divided) Cuvettes with teflon stopper	45x12.5x12.5	10	10	3.5	Q16010D	I 16010D	G16010D

✓ Fluorometer cuvettes

Fluorometer cuvettes are those cuvettes which at least have four windows polished, or even more.

01. Standard fluorometer cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Standard fluorometer cuvettes with lid	45x12.5x7.5	5	10	1.7	Q21005	I 21005	G21005
	45x12.5x12.5	10	10	3.5	Q21010	I 21010	G21010
	45x12.5x22.5	20	10	7	Q21020	I 21020	G21020
	45x12.5x32.5	30	10	10.5	Q21030	I 21030	G21030
	45x12.5x42.5	40	10	14	Q21040	I 21040	G21040
	45x12.5x52.5	50	10	17.5	Q21050	I 21050	G21050
 Standard fluorometer cuvettes with stopper	45x12.5x7.5	5	10	1.7	Q22005	I 22005	G22005
	45x12.5x12.5	10	10	3.5	Q22010	I 22010	G22010
	45x12.5x22.5	20	10	7	Q22020	I 22020	G22020
	45x12.5x32.5	30	10	10.5	Q22030	I 22030	G22030
	45x12.5x42.5	40	10	14	Q22040	I 22040	G22040
	45x12.5x52.5	50	10	17.5	Q22050	I 22050	G22050

02. Micro fluorometer cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Micro fluorometer cuvettes with lid	45x12.5x12.5	10	1	0.35	Q23101	I 23101	G23101
	45x12.5x12.5	10	2	0.7	Q23102	I 23102	G23102
	45x12.5x12.5	10	3	1	Q23103	I 23103	G23103
 Micro fluorometer cuvettes with stopper	45x12.5x12.5	10	1	0.35	Q24101	I 24101	G24101
	45x12.5x12.5	10	2	0.7	Q24102	I 24102	G24102
	45x12.5x12.5	10	3	1	Q24103	I 24103	G24103

03. Semi-Micro fluorometer cuvettes

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Semi-Micro fluorometer cuvettes with lid	45x12.5x7.5	5	4	0.7	Q23054	I 23054	G23054
	45x12.5x12.5	10	4	1.4	Q23104	I 23104	G23104
	45x12.5x22.5	20	4	2.8	Q23204	I 23204	G23204
	45x12.5x32.5	30	4	4.2	Q23304	I 23304	G23304
	45x12.5x42.5	40	4	5.6	Q23404	I 23404	G23404
	45x12.5x52.5	50	4	7	Q23504	I 23504	G23504
	45x12.5x7.5	5	5	0.85	Q23055	I 23055	G23055
	45x12.5x12.5	10	5	1.75	Q23105	I 23105	G23105
	45x12.5x22.5	20	5	3.5	Q23205	I 23205	G23205
	45x12.5x32.5	30	5	5.25	Q23305	I 23305	G23305
	45x12.5x42.5	40	5	7	Q23405	I 23405	G23405
	45x12.5x52.5	50	5	8.75	Q23505	I 23505	G23505
 Semi-Micro fluorometer cuvettes with stopper	25x12.5x7.5	5	4	0.7	Q24054	I 24054	G24054
	25x12.5x12.5	10	4	1.4	Q24104	I 24104	G24104
	25x12.5x22.5	20	4	2.8	Q24204	I 24204	G24204
	25x12.5x32.5	30	4	4.2	Q24304	I 24304	G24304
	25x12.5x42.5	40	4	5.6	Q24404	I 24404	G24404
	25x12.5x52.5	50	4	7	Q24504	I 24504	G24504
	25x12.5x7.5	5	5	0.85	Q24055	I 24055	G24055
	25x12.5x12.5	10	5	1.75	Q24105	I 24105	G24105
	25x12.5x22.5	20	5	3.5	Q24205	I 24205	G24205
	25x12.5x32.5	30	5	5.25	Q24305	I 24305	G24305
	25x12.5x42.5	40	5	7	Q24405	I 24405	G24405
	25x12.5x52.5	50	5	8.75	Q24505	I 24505	G24505

04. Sub-Micro fluorometer cuvettes

Z Dimension (Zd) :A=8.5mm, B=15mm

Picture and Name	Outside Dim HxWxD mm	Light Height mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Sub-Micro fluorometer cuvettes with lid	45x12.5x12.5	5	1	0.05	Q25051A/B	I 25051A/B	G25051A/B
	45x12.5x12.5	5	2	0.1	Q25052A/B	I 25052A/B	G25052A/B
	45x12.5x12.5	5	4	0.2	Q25054A/B	I 25054A/B	G25054A/B
	45x12.5x12.5	10	1	0.1	Q25101A/B	I 25101A/B	G25101A/B
	45x12.5x12.5	10	2	0.2	Q25102A/B	I 25102A/B	G25102A/B
	45x12.5x12.5	10	4	0.4	Q25104A/B	I 25104A/B	G25104A/B
 Sub-Micro fluorometer cuvettes with stopper	45x12.5x12.5	5	1	0.05	Q26051A/B	I 26051A/B	G26051A/B
	45x12.5x12.5	5	2	0.1	Q26052A/B	I 26052A/B	G26052A/B
	45x12.5x12.5	5	4	0.2	Q26054A/B	I 26054A/B	G26054A/B
	45x12.5x12.5	10	1	0.1	Q26101A/B	I 26101A/B	G26101A/B
	45x12.5x12.5	10	2	0.2	Q26102A/B	I 26102A/B	G26102A/B
	45x12.5x12.5	10	4	0.4	Q26104A/B	I 26104A/B	G26104A/B

05. Fluorometer flow cuvettes

Four windows optically polished. Both ends are open.

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
	45x12.5x7.5	5	10	1.7	Q21005F	I 21005F	G21005F
	45x12.5x12.5	10	10	3.5	Q21010F	I 21010F	G21010F
	45x12.5x22.5	20	10	7	Q21020F	I 21020F	G21020F
	45x12.5x32.5	30	10	10.5	Q21030F	I 21030F	G21030F
	45x12.5x42.5	40	10	14	Q21040F	I 21040F	G21040F
	45x12.5x52.5	50	10	17.5	Q21050F	I 21050F	G21050F

06. Cryogenic fluorometer cuvettes

Four windows and bottom optically polished.

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Cryogenic fluorometer cuvettes with lid	45x12.5x7.5	5	10	1.7	Q21005B	I 21005B	G21005B
	45x12.5x12.5	10	10	3.5	Q21010B	I 21010B	G21010B
	45x12.5x22.5	20	10	7	Q21020B	I 21020B	G21020B
	45x12.5x32.5	30	10	10.5	Q21030B	I 21030B	G21030B
	45x12.5x42.5	40	10	14	Q21040B	I 21040B	G21040B
	45x12.5x52.5	50	10	17.5	Q21050B	I 21050B	G21050B
 Cryogenic fluorometer cuvettes with stopper	45x12.5x7.5	5	10	1.7	Q22005B	I 22005B	G22005B
	45x12.5x12.5	10	10	3.5	Q22010B	I 22010B	G22010B
	45x12.5x22.5	20	10	7	Q22020B	I 22020B	G22020B
	45x12.5x32.5	30	10	10.5	Q22030B	I 22030B	G22030B
	45x12.5x42.5	40	10	14	Q22040B	I 22040B	G22040B
	45x12.5x52.5	50	10	17.5	Q22050B	I 22050B	G22050B

07. Tandem fluorometer cuvettes

Four windows and partition optically polished.

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Tandem fluorometer cuvettes with lid	45x12.5x12.5	10	10	3.5	Q21010D	I 21010D	G21010D
 Tandem fluorometer cuvettes with stopper	45x12.5x12.5	10	10	3.5	Q22010D	I 22010D	G22010D

08. Triangular fluorometer cuvettes

Three windows and bottom polished. Square bottom. Angle: 45 degrees X 45 degrees X 90 degrees

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
 Triangle fluorometer cuvettes with lid	45x12.5x12.5	10	10	1.75	Q29010	I 29010	G29010
 Triangle fluorometer cuvettes with stopper	45x12.5x12.5	10	10	1.75	Q20010	I 20010	G20010

✓Other cuvettes

01. Lovibond Tintometer cuvettes

Two windows optically polished.

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number		
					ES Quartz Glass 190nm-2500nm	IR Quartz Glass 250nm-3500nm	Optical Glass 340nm-2500nm
	40x20x10.4	6.35(1/4')	16	3.5	Q61016	I 61016	G61016
	40x20x16.7	12.7(1/2')	16	7.1	Q61616	I 61616	G61616
	40x20x29.4	25.4(1')	16	14.2	Q62516	I 62516	G62516
	40x20x54.8	50.8(2')	16	28.4	Q65016	I 65016	G65016
	40x20x133.35	133.35(5 1/4')	16	74.6	Q63316	I 63316	G63316

02. Colourimeter cuvettes

Two windows optically polished.

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number	
					ES Quartz Glass 190nm-2500nm	Optical Glass 340nm-2500nm
	56x55x6	2	51	5	Q60251	G60251
	56x55x9	5	51	12.5	Q60551	G60551
	56x55x14	10	51	25	Q61051	G61051
	56x55x24	20	51	50	Q62051	G62051
	56x55x34	30	51	75	Q63051	G63051
	56x55x54	50	51	125	Q65051	G65051
	40x28x11	5	24	3.6	Q60524	G60524
	40x28x16	10	24	7.2	Q61024	G61024
	40x28x26	20	24	14	Q62024	G62024

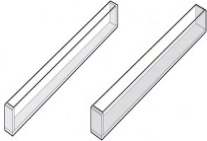
03. Dry laser cuvettes

Four windows polished.

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number	
					ES Quartz Glass 190nm-2500nm	Optical Glass 340nm-2500nm
	40x26x26	20	20	12	Q62020	G62020
	40x26x46	40	20	24	Q64020	G64020
	50.8x17x21	17	15	11.3	Q61715	G61715

04. Gel boat cuvettes

Base optically polished.

Picture and Name	Outside Dim HxWxD mm	Inside Dim HxWxD mm	Path Length mm	Product Number	
				ES Quartz Glass 190nm-2500nm	Optical Glass 340nm-2500nm
	12x6x104	10x3x100	3	Q60303	G60303
	12x10x104	10x6x100	6	Q60606	G60606
	12x11x104	10x7x100	7	Q60707	G60707
	12x12x104	10x8x100	8	Q60808	G60808
	10.5x7.5x100	10x5x97	5	Q60505	G60505

✓ Plastic cuvettes

Can be used for only one time. No lid or stopper.

Picture and Name	Outside Dim HxWxD mm	Path Length mm	Inside Width mm	Volume ml	Product Number
					Plastic Material
	45x12.5x12.5	10	10	3.5	P15010

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