



TOQUARTZ

Product Catalog

TOQUARTZ®

Quartz Fluorescence

Cuvette with Lid

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITH LID

TOQUARTZ® is a specialized manufacturer of high-purity quartz products based in China, serving global B2B clients in laboratory instrumentation, biomedical research, and environmental monitoring. With in-house engineering support and flexible production capabilities, we offer both standard and custom TOQUARTZ® Quartz Fluorescence Cuvette with Lid with fast delivery and consistent quality.



Product Overview

TOQUARTZ® quartz fluorescence cuvette with lid is made from high-purity optical quartz (99.995% SiO₂), offering excellent UV and visible light transmission from 190nm to 2500nm. Designed for fluorescence spectroscopy, DNA/RNA quantification, and protein analysis, this cuvette features a sealed PTFE cap to prevent sample evaporation and contamination.

TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITH LID



Key Features

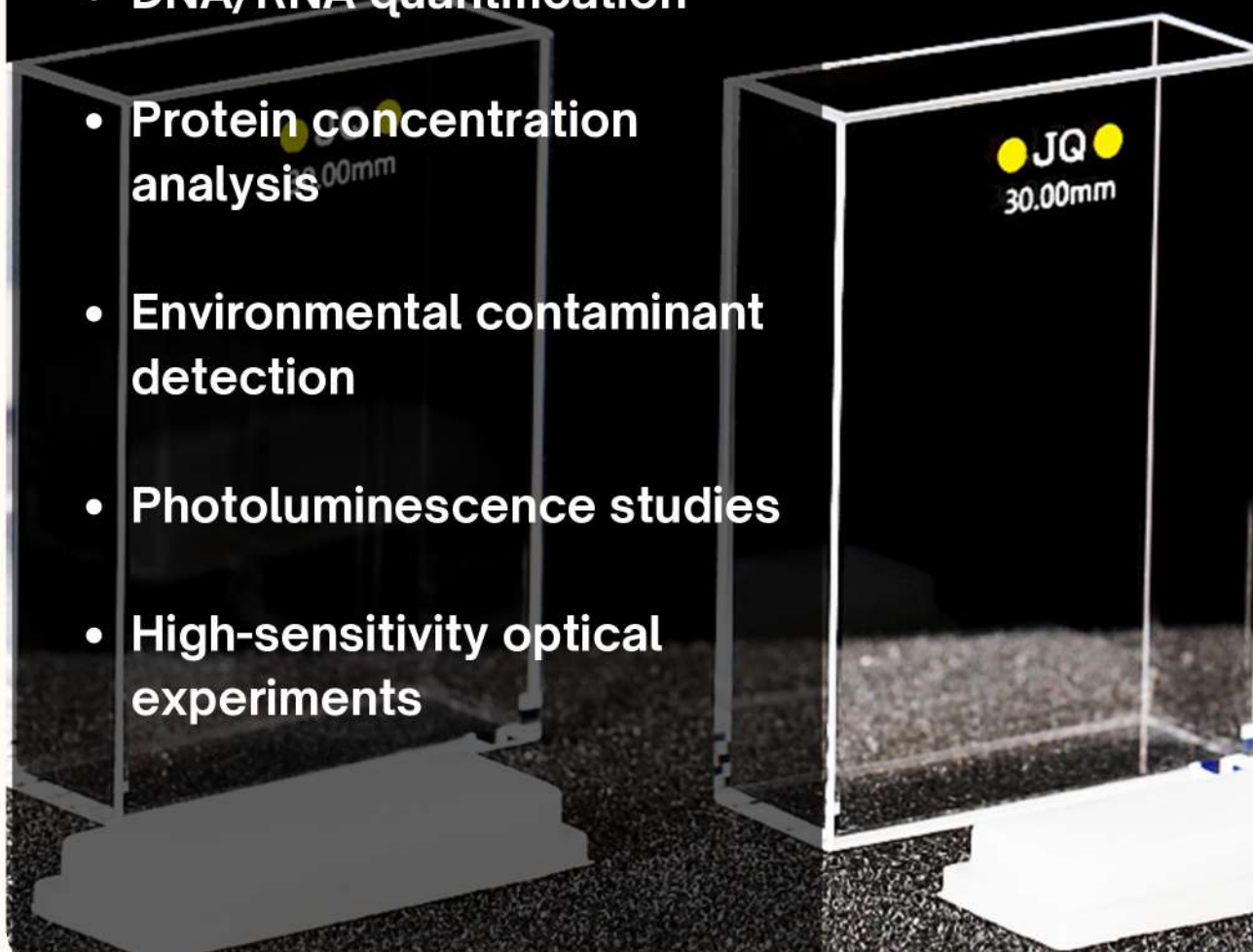
- High-Purity Material: 99.995% SiO₂ quartz for exceptional chemical resistance and optical clarity
- Excellent Optical Transmission: Superior UV-visible light transmission range (190-2500nm) with no absorption peaks
- Sealed Design: PTFE lid provides secure sealing to prevent sample evaporation and contamination
- Customizable: Available in standard sizes or custom dimensions to match your specific requirements

TOQUARTZ® QUARTZ FLUORESCENCE CUVETTE WITH LID



Applications

- Fluorescence spectroscopy
- DNA/RNA quantification
- Protein concentration analysis
- Environmental contaminant detection
- Photoluminescence studies
- High-sensitivity optical experiments





TECHNICAL SPECIFICATIONS

Physical Properties

- Material: High-purity quartz (99.995% SiO₂)
- Standard Path Lengths: 5mm, 10mm, 20mm, 40mm, 50mm
- Dimensional Tolerance: $\pm 0.1\text{mm}$
- Cap Material: PTFE (standard), PE (optional)
- Surface Finish: Polished optical windows, optional frosted surfaces

Chemical Properties

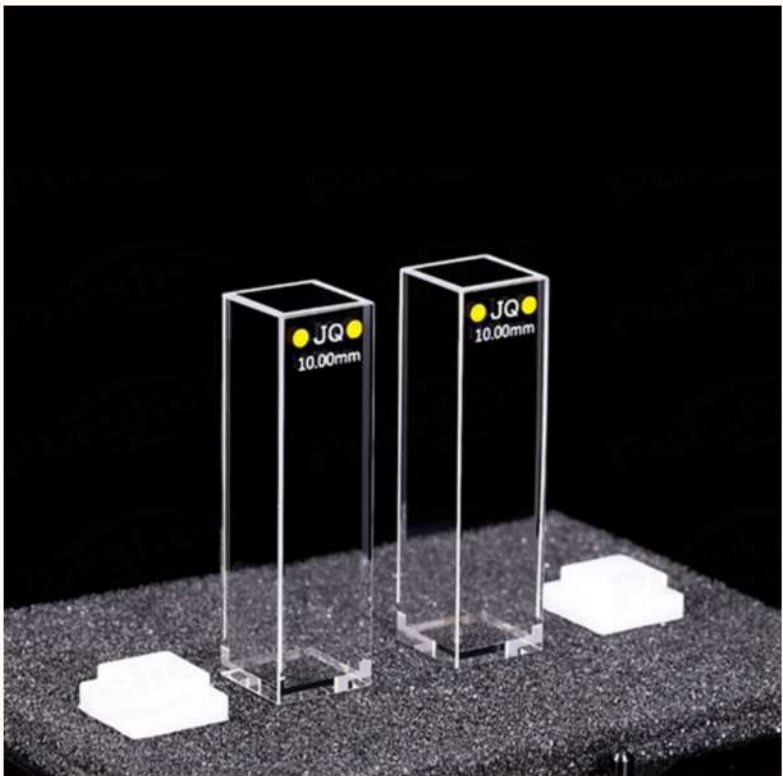
- Chemical Resistance: Resistant to acids, bases, salts, and fluorinated gases
- Thermal Expansion Coefficient: $5.5 \times 10^{-7} / ^\circ\text{C}$
- Maximum Operating Temperature: 1100°C
- Breakage Modulus: 350MPa+

Optical Properties

- Transmission Range: 190nm - 2500nm
- Transmission Rate: $\geq 80\%$ (200-800nm)
- Absorption Peaks: None within transmission range



SIZE CHART

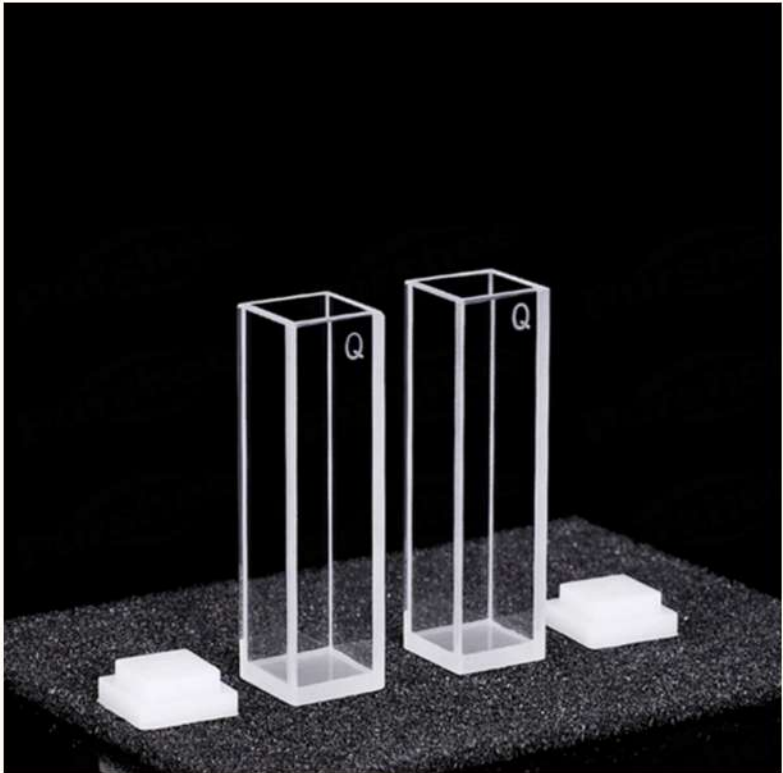


3500µl Quartz Fluorescence Cuvette with Lid

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6002	3500µl Quartz Fluorescence Cuvette with Lid	10mm	3500µl	12.5x12.5x45 mm



SIZE CHART



3500µl Standard Quartz Fluorescence Cuvette with Lid

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6003	3500µl Standard Quartz Fluorescence Cuvette with Lid	10mm	3500µl	12.5x12.5x45 mm



SIZE CHART



14000µl Quartz Fluorescence Cuvette with Lid Path Length 10mm

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6005	14000µl Quartz Fluorescence Cuvette with Lid Path Length 10mm	10mm	14000µl	12.5x42.5x45 mm



SIZE CHART



14000µl Quartz Fluorescence Cuvette with Lid Path Length 40mm

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6005-1	14000µl Quartz Fluorescence Cuvette with Lid Path Length 40mm	40mm	14000µl	12.5x42.5x45 mm



SIZE CHART



17500µl Quartz Fluorescence Cuvette with Lid Path Length 10mm

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6007	17500µl Quartz Fluorescence Cuvette with Lid Path Length 10mm	10mm	17500µl	12.5x52.5x45 mm



SIZE CHART



17500µl Quartz Fluorescence Cuvette with Lid Path Length 50mm

Model	Description	PathLength	Volume	Outline Dimension	Outer Dia.	Height2
AT-BSM-6007-1	17500µl Quartz Fluorescence Cuvette with Lid Path Length 50mm	50mm	17500µl	12.5x52.5x45mm	3mm	30mm



SIZE CHART



1750μl Quartz Fluorescence Cuvette with Lid

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6010	1750μl Quartz Fluorescence Cuvette with Lid	10mm	1750μl	12.5x12.5x45 mm



SIZE CHART



3500µl Quartz Fluorescence Cuvette Cell with Lid

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6012	3500µl Quartz Fluorescence Cuvette Cell with Lid	10mm	3500µl	12.5x12.5x45 mm



SIZE CHART

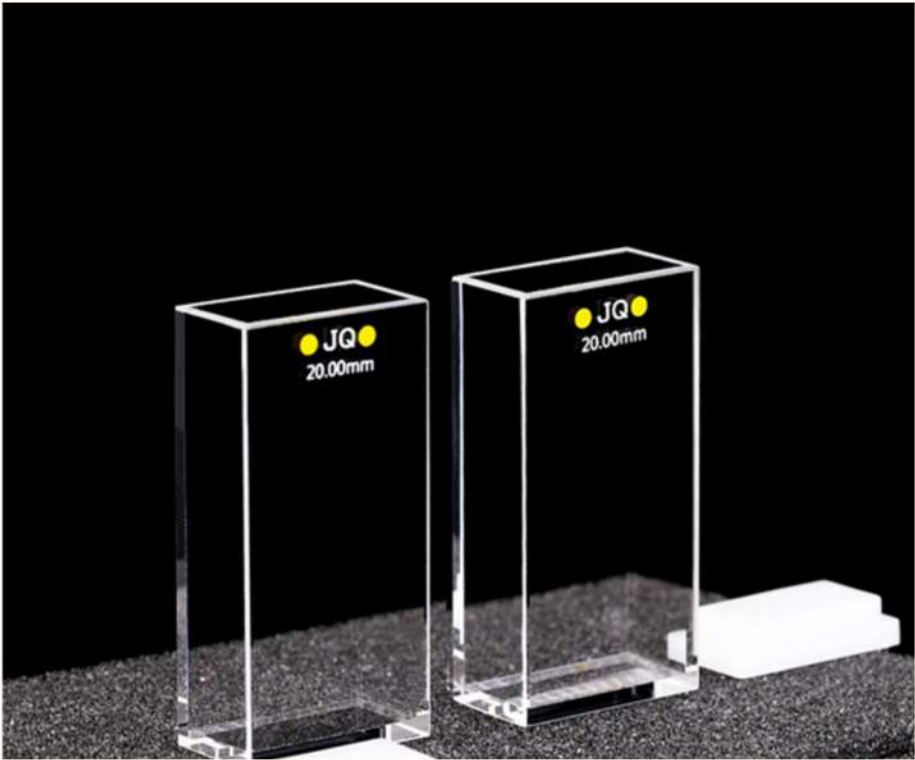


10500µl Quartz Fluorescence Cuvette Cell with Lid

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6013	10500µl Quartz Fluorescence Cuvette Cell with Lid	30mm	10500µl	12.5x32.5x45 mm



SIZE CHART



7000µl Quartz Fluorescence Cuvette Cell with Lid

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6014	7000µl Quartz Fluorescence Cuvette Cell with Lid	20mm	7000µl	12.5x22.5x45 mm



SIZE CHART



1750µl Quartz Fluorescence Cuvette Cell with Lid

Model	Description	PathLength	Volume	Outline Dimension
AT-BSM-6015	1750µl Quartz Fluorescence Cuvette Cell with Lid	5mm	1750µl	7.5x12.5x45mm



CUSTOM ENGINEERING SERVICES

Customization Services Our engineering team provides comprehensive customization options to meet your specific requirements:

- Non-standard path lengths
- Special dimensions and geometries
- Different cap/lid designs
- Surface treatments (frosted walls, black masks)
- Micro-volume configurations



QUALITY ASSURANCE

Each TOQUARTZ Quartz Cuvette undergoes rigorous quality control testing:

- **Dimensional Verification:** Precision measurement of all critical dimensions
- **Optical Transmission Testing:** Verification of spectral transmission properties
- **Surface Quality Inspection:** Microscopic examination of polished surfaces
- **Paired Performance Testing:** Validation of optical consistency

Contact Information

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TOQUARTZ® - Precision Quartz Solutions for Industry and Research

For technical specifications, custom requirements, or pricing information, please contact our sales team.