



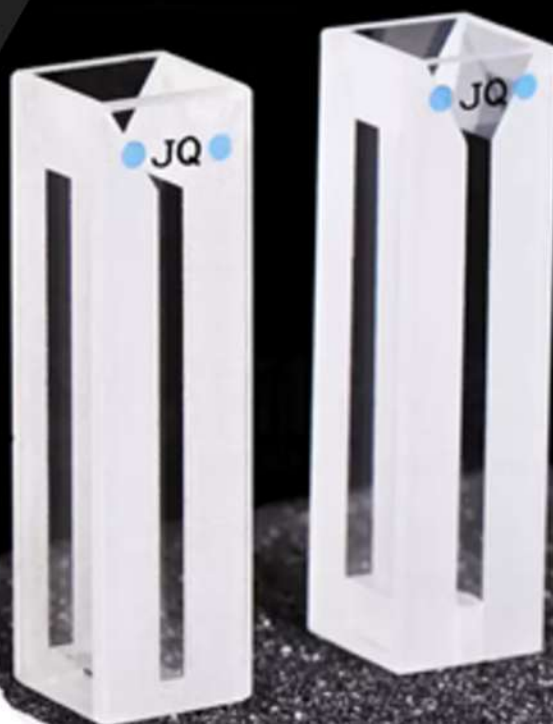
TOQUARTZ

Product Catalog

TOQUARTZ®

Frosted Quartz Micro Cuvette with PTFE Lid

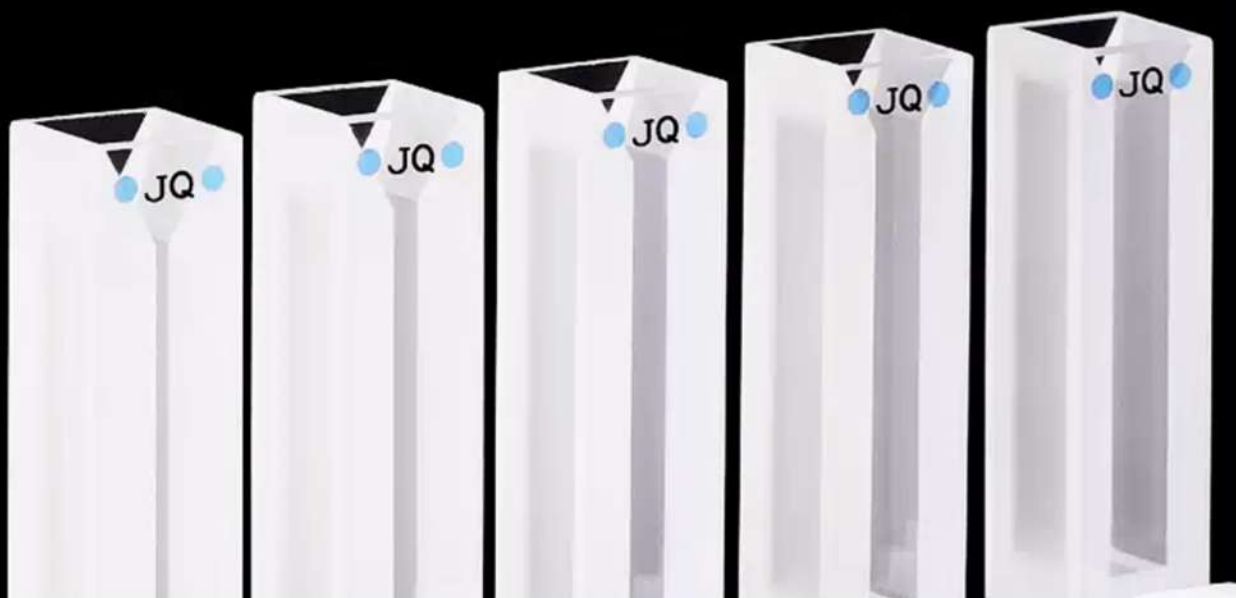
Integrated Engineering & Agile Production
for Demanded Specifications





TOQUARTZ® FROSTED QUARTZ MICRO CUVETTE WITH PTFE 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® Frosted Quartz Micro Cuvette with PTFE Lid with fast delivery and consistent quality.



Product Overview

TOQUARTZ® frosted quartz micro cuvette with PTFE lid is designed for high-precision UV-VIS spectrophotometry and micro-volume sample analysis. Made from high-purity quartz ($\geq 99.98\%$ SiO_2 , max. up to 99.995%), it offers excellent optical transmission from 200nm to 2500nm, with no absorption peaks in the UV range.



TOQUARTZ® FROSTED QUARTZ MICRO CUVETTE WITH PTFE LID



Key Features

- High-Purity Quartz Construction: $\geq 99.98\%$ SiO_2 , available up to 99.995% purity
- Wide Spectral Range: 200nm to 2500nm transmission range
- Frosted Sidewalls: Minimizes stray light interference
- Chemical Resistance: Stable against acids, bases, and organic solvents
- Thermal Stability: Temperature resistant up to 600°C
- PTFE Lid: Secure sealing for volatile samples
- Standard 10mm Pathlength: Compatible with most spectrophotometers

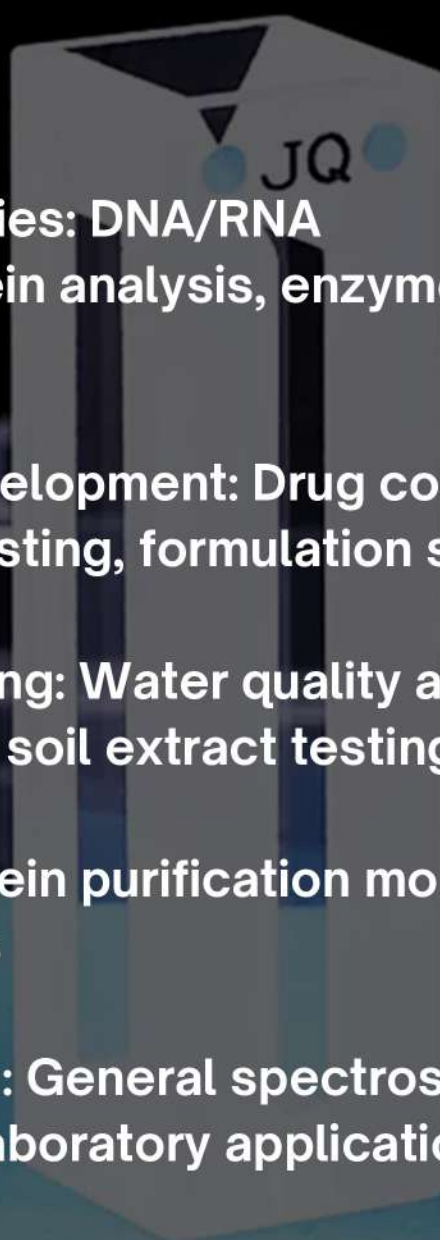


TOQUARTZ® FROSTED QUARTZ MICRO CUVETTE WITH PTFE LID



Applications

- **Research Laboratories:** DNA/RNA quantification, protein analysis, enzyme kinetics
- **Pharmaceutical Development:** Drug compound analysis, stability testing, formulation studies
- **Environmental Testing:** Water quality analysis, pollutant detection, soil extract testing
- **Biotechnology:** Protein purification monitoring, cell culture analysis
- **Academic Research:** General spectroscopic analysis, teaching laboratory applications





TECHNICAL SPECIFICATIONS

Physical Properties	Specifications
Material	High-purity quartz ($\geq 99.98\%$ SiO ₂ , up to 99.995%)
Stopper Material	PTFE (Polytetrafluoroethylene)
Mechanical Strength	Fracture modulus >350MPa
Thermal Stability	Up to 1100°C
Thermal Conductivity	120–160 W/m.K

Optical Properties	Specifications
Spectral Range	200nm-2500nm
Transmittance	>80% (Paired Testing)
Absorption Peaks	None within operational range
Path Length Accuracy	± 0.1 mm
Surface Quality	Polished, optically clear

Chemical Properties	Specifications
Acid Resistance	Excellent (except HF)
Base Resistance	Excellent
Solvent Resistance	Excellent
PTFE Stopper	Inert to most chemicals



SIZE CHART



350µl Frosted Quartz Micro Cuvette with Lid

Model	Description	Wave length	Path Length	Volume	Thermal Stability	Outline Dimension
AT-BSM-4027	350µl Frosted Quartz Micro Cuvette with Lid	200nm-2500nm	10mm	350µl	600°C	12.5x12.5x45 mm



SIZE CHART



1400µl Frosted Quartz Micro Cuvette with Lid

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4030	1400µl Frosted Quartz Micro Cuvette with Lid	200nm-2500nm	10mm	1400µl	600°C	12.5x12.5x45 mm



SIZE CHART



1050µl Frosted Quartz Micro Cuvette with Lid

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4031	1050µl Frosted Quartz Micro Cuvette with Lid	200nm-2500nm	10mm	1050µl	600°C	12.5x12.5x45 mm



SIZE CHART



1750µl Frosted Quartz Micro Cuvette with Lid

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4031-1	1750µl Frosted Quartz Micro Cuvette with Lid	200nm-2500nm	10mm	1750µl	600°C	12.5x12.5x45 mm



SIZE CHART



700µl Frosted Quartz Micro Cuvette with Lid

Model	Description	Wavelength	PathLength	Volume	Thermal Stability	Outline Dimension
AT-BSM-4034	700µl Frosted Quartz Micro Cuvette with Lid	200nm-2500nm	10mm	700µl	600°C	12.5x12.5x45 mm



CUSTOM ENGINEERING SERVICES

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

- Volume Customization
- Dimensional Modifications: Non-standard path lengths
- Surface Treatments: Selective frosting patterns
- Specialized Lid Options: Screw-cap variations, alternative materials



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.