TOQUARTZ

TOQUARTZ
Product Catalog

TOQUARTZ®
Quartz Infrared Micro Cuvette

Integrated Engineering & Agile Production
for Demanded Specifications

TOQUARTZ® QUARTZ INFRARED MICRO CUVETTE

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 Infrared Micro Cuvette with fast delivery and consistent quality.

Product Overview

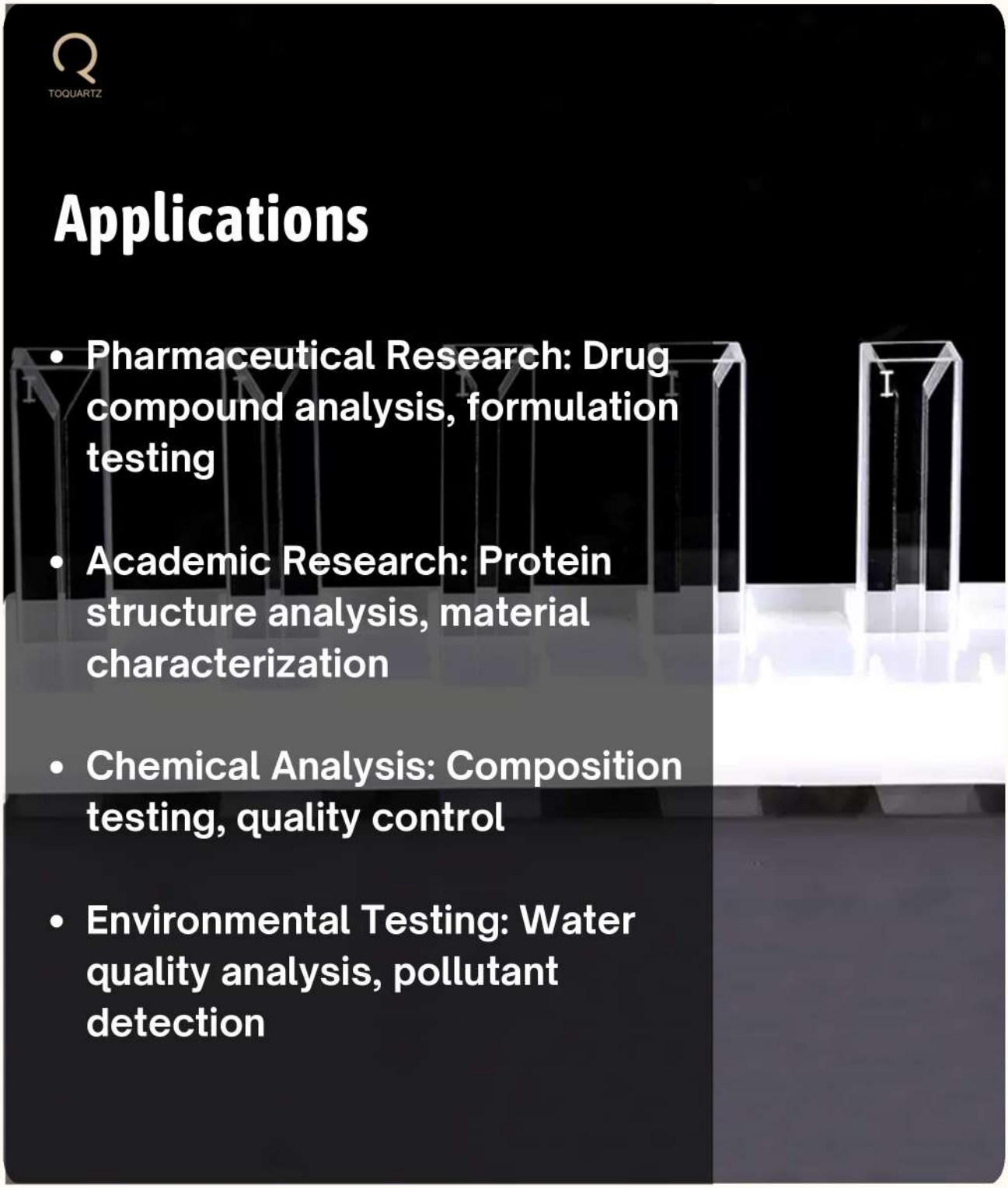
TOQUARTZ® Quartz Infrared Micro Cuvettes are designed for high-precision infrared spectroscopy applications, offering excellent optical clarity and chemical stability. Manufactured from high-purity synthetic quartz (≥99.98% SiO_2, max. up to 99.995%), these cuvettes support a wide spectral range from 260nm to 3500nm, making them ideal for mid-IR and near-IR analysis.

TOQUARTZ® QUARTZ INFRARED MICRO CUVETTE

Key Features

- Superior Optical Properties: Exceptional transmittance across 260nm-3500nm wavelength range with no absorption peaks
- High Material Purity: Manufactured from premium synthetic quartz with purity levels up to 99.995% SiO_2
- Multiple Pathlength Options: Available in 1mm, 2mm, 3mm, 4mm, and 5mm pathlengths
- Micro Volume Capacity: Designed for samples from 350µL to 1.75mL
- Robust Construction: Adhesive bonding optimized for neutral solutions

TOQUARTZ® QUARTZ INFRARED MICRO CUVETTE



TECHNICAL SPECIFICATIONS

Physical Properties	Specification
Material	High-purity synthetic quartz
Material Purity	≥99.98% SiO_2 (up to 99.995%)
Dimensional Tolerance	±0.1mm
Standard Dimensions	12.5 x 12.5 x 45 mm
Surface Finish	Optically polished, no bubbles or striations
Temperature Resistance	Up to 1100°C

Optical Properties	Specification
Wavelength Range	260nm - 3500nm
Transmittance	>80% (Paired Testing)
Absorption Peaks	None within specified wavelength range
Pathlength Options	1mm, 2mm, 3mm, 4mm, 5mm
Pathlength Accuracy	±0.1mm

Chemical Properties	Specification
Chemical Compatibility	Neutral solutions (pH 6-8)
Not Recommended For	Strong acids, alkalis, organic solvents
Adhesive Type	Specialized optical-grade adhesive
Sample Volume Range	350µL - 1.75mL (varies by model)

SIZE CHART

350ul/700ul/1.05ml/1.4ml/1.75ml Quartz Infrared Micro Cuvette

Model	Description	Wavelength	PathLength	Volume	Transmittance	Outline Dimension
AT-BSM-2005	350ul/700ul/1.05ml/1.4ml/1.75ml Quartz Infrared Micro Cuvette	260nm-3500nm	10mm	350ul/700ul/1.05ml/1.4ml/1.75ml	>80% (Paired Testing)	12.5x12.5x45 mm

CUSTOMIZATION OPTIONS

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

- Custom path lengths from 0.5mm to 100mm
- Special heights for unique instrument compatibility
- Modified wall thickness for thermal applications
- Airtight PTFE stoppers
- Screw-cap systems for secure sealing
- Flow-through designs with inlet/outlet ports
- Anti-reflection coatings for improved transmission
- Hydrophobic surface treatments
- Special polishing for enhanced optical clarity

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.