

Providing Sterilization & Laboratory Services for the world's most innovative healthcare companies.

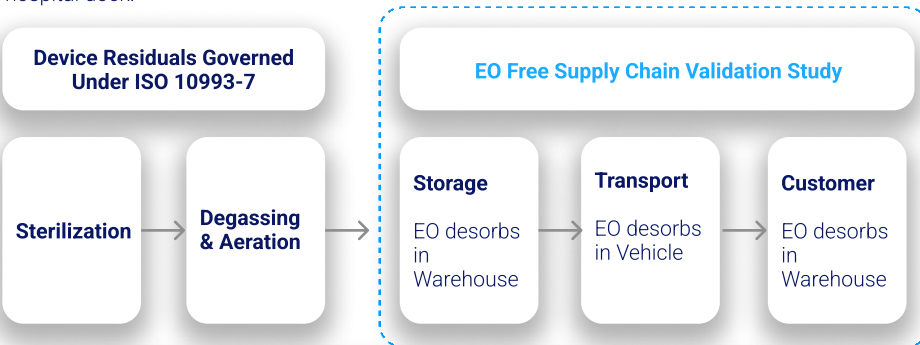
Residual EO Testing Post-Sterilization

EO Free Supply Chain Validation

Following sterilization and aeration, residual EO may continue interacting with packaging materials and logistics environments throughout the post-sterilization supply chain. Packaging systems may absorb and progressively release EO during storage, transport, handling, and distribution activities. While device residuals are governed by ISO 10993-7, EO behavior across post-sterilization logistics operations remains less extensively monitored and documented.

Time-Based Packaging Evaluation

GC-FID / GC-MS analysis of primary, secondary, and tertiary packaging layers at defined post-aeration intervals. EO-Free Supply Chain Validation evaluates EO release across packaging systems, logistics environments, and personnel interaction points, from the sterilization chamber to the hospital dock.



Who Is It For

<p>Medical Device Manufacturers</p> <ul style="list-style-type: none"> Risk Management Customer Assurance 	<p>Logistics & 3PL</p> <ul style="list-style-type: none"> Personnel safety Warehouse monitoring
<p>Healthcare Procurement</p> <ul style="list-style-type: none"> Controlled goods-in assurance 	<p>Regulatory Affairs</p> <ul style="list-style-type: none"> PMS Chemical safety documentation

What We're Testing

<p>Pallet System</p> <p>Evaluation of cumulative EO retention and release across full pallet configurations under operational conditions.</p>	<p>Packaging System</p> <p>Assessment of EO retention and release across primary, secondary, and tertiary packaging materials over defined post-aeration intervals.</p>	<p>Environmental Monitoring</p> <p>Air sampling across transport, warehousing, storage, and order-picking environments.</p>	<p>Personel Safety</p> <p>Passive TWA dosimetry for warehouse, QC, logistics, and transport personnel compared against OSHA and EU exposure limits.</p>
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Summary

- Where:** In-house laboratory testing performed in Switzerland
- Lead Time:** ~10 week
- Standards:** ISO 11135, ISO 10993-7, ISO 14971, EU MDR

The Challenge

EO does not necessarily stop at aeration. Understanding its behavior beyond sterilization supports safety, compliance, and risk management.

- EO persists beyond device aeration
- Packaging materials continue releasing EO
- Palletized loads can concentrate residual EO
- Logistics exposure remains poorly characterized
- Repeated handling may increase exposure
- Regulatory expectations are rising





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The New Stack of Fully Integrated Services.

Laboratory Infrastructure Chemistry Biocompatibility Microbiology Sterility Assurance Extractable's & Leachable's	Manufacturing Infrastructure Product Assembly Custom Packaging Solutions Quality Control & CE Marking Labelling & Distribution Picking, Packing, Shipping
Sterilization Infrastructure Steam Sterilization EO Sterilization	
Validation Infrastructure Sterilization Validation Packaging Validation Cleaning & Disinfection Validation Transport Simulation Laboratory Method Validation Sterile Barrier Integrity Testing Reprocessing Validation	

Medistri is continually innovating its **in-house** range of services. We're expanding our infrastructure to offer a completely integrated stack of services for healthcare companies. Organizations of every size — from startups to large enterprises use our suit of services to start, grow & optimize their business.

Within our site located at the heart of Switzerland, Medistri **combines all its technical infrastructure together** and places quality at the heart of its day-to-day operations. Allowing you to simplify your supply chain management, focus on growth & maintain excellence.



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