



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

Europe's Largest Independent Contract Sterilization Company

Mixed Load or Single Load Cycles

Cycle configuration plays a critical role in achieving sterility assurance while maintaining product integrity and regulatory compliance. Depending on product characteristics, development stage, and production strategy, sterilization can be performed using Single Load or Mixed Load cycles. Each approach follows the same regulatory principles but responds to different operational and validation needs.

| | Mixed Load Cycles | Single Load Cycles |
|-----------------------------|--|--|
| Maximum Load (Validation) | 1 Euro Pallet | 16 Euro Pallet |
| Minimum Load (Validation) | 1 Box | 1 Box or 1 Euro Pallet |
| Routine Batch Size | 1 Box - 16 Euro Pallet | 1 Box - 16 Euro Pallets |
| Max. Pallet Height | 205 cm (CH), 240 cm (HU) | 240 cm (CH & HU) |
| Max. Pallet Weight | 250kg | - |
| Routine Sterilization Costs | Per Pallet | Per Chamber/ Per Cycle |
| Lead Times | Standard - 7 to 14 Days Express - 5 to 7 Days Super-Express - Under 4 Days | Standard - 7 to 14 Days Express - 5 to 7 Days Super-Express - Under 4 Days |
| Cycle Parameters | Medistri Standard Cycle | Customized Cycle or Standard Cycle |
| Shared Chamber | Yes | No |
| Regulatory Compliance | ISO 11135 | ISO 11135 |
| Typically Chosen For | Low Volume, Small Routine Batches | High Volume, Large Routine Batches Products Requiring Specific Sterilization Parameters |
| FDA Compatibility | Yes | Yes |
| Degassing Cycle | Yes, Minimum 6 Hours | Product Dependent |
| Best for | Best for customers who need flexibility and speed across many products: <ul style="list-style-type: none">• Startups / scale-ups running early-stage programs (clinical, pilot, low-volume commercial)• High product variety portfolios (many references, many formats, many packaging types)• Low-to-medium volumes per Product (no dedicated batches available)• Customers more frequent shipment cycles• Products compatible with shared cycle conditions (validated to run under a common cycle family)• Cost-sensitive sterilization needs, where cost can be optimized by load sharing• Unpredictable demand (forecast variability, irregular production releases) | Best for customers who need customized cycles and high-volume predictability. <ul style="list-style-type: none">• High-volume commercial production (steady throughput, predictable demand)• Products requiring strict segregation• Dedicated medical device programs where cycle ownership matters• Complex validated product families (tight parameter windows)• Products with special requirements (EO absorption, aeration profile, packaging sensitivity)• Large OEMs expecting batch traceability and minimal co-processing risk• Pharmaceutical Products & Pharmaceutical Packaging |
| Site Availability | Switzerland, Hungary | Switzerland, Hungary |

An Overview

Validation is performed in accordance with the internationally recognized standard ISO 11135 for EO sterilization.

Mixed Load EO Sterilization is best suited for medical devices with low production volumes and limited material/product complexity, allowing customers to share chamber capacity and sterilisation costs with other validated products, all processed under the same cycle specification using a worst-case validation approach to ensure compliance and safety. Single Load EO sterilisation is best suited for pharmaceutical products & medical devices requiring dedicated processing, due to higher material/product complexity, higher production volumes, or specific cycle parameters.



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The New Stack of Fully Integrated Services.

Laboratory Infrastructure

Chemistry

Biocompatibility & Toxicology

Sterility Assurance

Extractables & Leachables

Manufacturing Infrastructure

Product Assembly

Custom Packaging Solutions

Quality Control & CE Marking

Labelling & Distribution

Sterilisation Infrastructure

Steam Sterilization

EO Sterilization

Validation Infrastructure

Sterilization Validation

Cleaning Validation

Process Validation

Disinfection Validation

Packaging Validation

Transport Simulation

Sterile Barrier Integrity Testing

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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