

Clinical labs, pathology & diagnostics

Accurate results. Continuous operations. Built for ISO 15189 and GxP.

XILTRIX

Nothing
left to chance.



1. Sample intake ISO 15189 GxP	2. Processing ISO 15189 GxP	3. Storage & archiving ISO 15189	4. Diagnostics ISO 15189	5. Distribution GDP ISO 15189	6. Operations ISO 15189
• Receipt & registration • Pre-analytical handling • Temporary storage • Chain of custody	• Sample preparation • Automated analysis • Quality control testing • In-process monitoring	• Short- & long-term storage • LN₂ storage with auto-fill • Archive management • Sample retrieval & tracking	• Diagnostic analysis • Result validation • Data management • Audit-ready reporting	• Packaging & shipment • Temp-controlled transport • Chain of custody • External lab collaboration	• Equipment monitoring • Preventive maintenance • Deviation management • Business continuity

Key processes	• Sample intake & registration • Barcoding & tracking • Pre-analytical handling • Temporary storage	• Sample preparation • Automated analysis • Quality control (QC) • Method validation	• Short- & long-term storage • LN₂ auto-fill & supply • Sample retrieval • Inventory tracking	• Diagnostic analysis • Result validation • Reporting & data • External quality assessment	• Packaging & shipping • In-transit (via partners) • Chain of custody • Lab-to-lab collaboration	• Equipment monitoring • Preventive maintenance • Deviation & CAPA • Continuity of operations
Locations	• Reception & accessioning • Pre-analytical areas • Sample storage rooms • Temporary holding areas	• Core laboratories • Specialist labs • QC rooms • Research labs	• Sample storage facilities • Refrigerated & frozen rooms • Archive areas • Centralised biorepositories	• Diagnostic labs • Pathology departments • Molecular & genetic labs • Research & clinical labs	• Shipping & receiving areas • External lab interfaces • Courier handover points • Partner lab facilities	• Technical rooms • IT & data centres • Utility rooms (HVAC, power) • Facility management offices
Assets to monitor	• Sample fridges (2–8°C) • Sample freezers (–20°C) • Benchtop refrigerators • Storage cabinets	• Analysers & automation • Incubators (CO₂/O₂) • Centrifuges & shakers • Clinical lab equipment	• Ultra-low freezers (≤ –80°C) • LN₂ tanks & auto-fill supply • Cold rooms (2–8°C) • Backup power & alarms	• Diagnostic equipment • Microscopes & scanners • Reagent storage fridges • Controlled storage cabinets	• Dry ice/LN₂ shippers • Temperature & shock loggers • Active & passive packaging • Dock doors & staging areas	• HVAC systems • Environmental rooms • Power, UPS & generators • Water systems & alarms
Environmental parameters	• Temperature • Humidity • Door status • Power status	• Temperature • Humidity • CO₂ / O₂ • Vibration / shock	• Temperature (to –196°C) • LN₂ level, pressure, fills • Humidity • Door status	• Temperature • Humidity • CO₂ (where relevant) • Room pressure	• Temperature • Location (GPS, via partners) • Shock (via partners) • Lid/box opening	• Temperature • Humidity • CO₂ / differential pressure • Power, water, room
Compliance & standards	• ISO 15189 (medical labs) • GxP (where applicable) • Sample integrity • Audit & documentation	• ISO 15189 • Method validation • QC & proficiency testing • Data integrity (ALCOA+)	• ISO 15189 Biobanking • GCP (research) • Sample chain of custody • Audit & traceability	• ISO 15189 • EQA & proficiency testing • Result integrity • Data security & privacy	• GDP (transport) • Chain of custody • Temperature validation • Audit documentation	• ISO 15189 • Facility compliance • Business continuity • Disaster recovery planning
XILTRIX value	• Real-time monitoring & alerts • Supports sample integrity • LIMS link via REST API • Audit-ready documentation	• Equipment monitoring • Early-warning alerts • Less downtime • Supports QC & compliance	• Auto-fill: level & pressure • Closed valves flagged early • Inventory tracking • Multi-site visibility	• Diagnostic early warning • Actionable alarms • Audit-ready evidence • LIMS link via REST API	• In transit (via partners) • Excursion alerts • Monitored handover records • End-to-end chain of custody	• Operational resilience • Maintenance planning • Less service disruption • Accreditation & audits

Beyond monitoring	IT expertise In-house IT know-how: SSO with Active Directory, ISO 27001, full encryption, REST API to LIMS, BMS and EMS.	Consultancy & validation Risk inventory, URS and validation support (IQ/OQ), from design to inspection.	Visualisation, built in Zoomable floor plans and live dashboards on any device; wall screens built into your lab.
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Proven since 1987 No customer has lost irreplaceable material because our monitoring failed	24/7 technical support Monitoring chain watched around the clock; alarms escalate to your own on-call team	Built for ISO 15189 and GxP ISO 15189 GxP GDP: validated monitoring, audit-ready, data integrity
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