

IVF, ART & fertility

Protecting what matters most. Built for GxP.

XILTRIX | Nothing left to chance.



	1. Patient intake Quality Safety	2. Gamete handling GMP ISO 15189	3. Embryo culture GMP Quality	4. Cryopreservation GMP Long-term	5. Treatment & transfer Safety Traceability	6. Long-term storage Compliance
	• Patient registration & plan • Hormone medication • Sperm & egg collection • Safe chain of custody	• Sperm & oocyte processing • ICSI & fertilisation • Lab environment control • Equipment monitoring	• Incubation & time-lapse • CO₂ / O₂ monitoring • Temperature & pH control • Environment logging	• Vitrification & freezing • LN₂ storage with auto-fill • Long-term sample storage • Inventory tracking	• Embryo thawing & prep • Transfer procedures • Safety & documentation • Chain of custody	• Long-term storage • Sample integrity & viability • Patient records & consent • Audit & regulatory reporting
Key processes	• Patient intake & planning • Hormone medication • Collection & registration • Chain of custody	• Gamete processing • ICSI & fertilisation • Embryo culture • Lab quality control	• Continuous embryo culture • Time-lapse monitoring • Embryo assessment • Lab workflow management	• Vitrification • LN₂ auto-fill & supply • Inventory & sample tracking • Sample retrieval & warming	• Embryo thawing & prep • Transfer procedures • Patient safety & consent • Documentation & traceability	• Long-term storage • Patient follow-up • Sample integrity monitoring • Regulatory reporting
Locations	• Consultation rooms • Sample collection rooms • Medication storage • Waiting & patient areas	• Processing labs • Andrology lab (sperm) • Embryology lab • Cleanrooms (where relevant)	• Embryo culture rooms • Time-lapse incubator rooms • Controlled lab environments • Observation & grading areas	• Cryogenic storage rooms • LN₂ tank areas • Backup storage facilities • Secure access zones	• Procedure & transfer rooms • Preparation labs • Operating theatre (if relevant) • Patient recovery areas	• Long-term storage facilities • Backup storage locations • Operating theatre (if relevant) • Archive & record rooms
Assets to monitor	• Refrigerators (2–8°C) • Freezers (–20°C) • Medication fridges • Sample transport containers	• Incubators (CO₂/O₂) • IVF workstations • Microscopes • Centrifuges & analysers	• CO₂ incubators • Time-lapse incubators • Laminar flow cabinets • pH monitoring systems	• LN₂ tanks (liquid & vapour) • LN₂ supply & auto-fill • Ultra-low freezers (–80°C) • Backup power & alarms	• Warming devices • Incubators & culture media • Procedure room equipment • Environmental sensors	• LN₂ tanks & level sensors • Ultra-low freezers • Storage room environment • Backup HVAC & power
Environmental parameters	• Temperature • Humidity • Door status • Power status	• Temperature • CO₂ / O₂ • Humidity • Particles (clean air)	• Temperature (37°C ±0.5) • CO₂ level (5–6%) • O₂ level • pH (where relevant)	• Temperature (to –196°C) • LN₂ level, pressure, fills • Humidity • Door status	• Temperature • Humidity • CO₂ / O₂ • Room T/RH/pressure	• Temperature • Humidity • LN₂ level & pressure • Power status
Compliance & standards	• GCP (clinical trials) • ISO 15189 (where applicable) • Patient safety regulations • Data protection (GDPR)	• GMP (tissue handling) • ISO 15189 • Quality management (QMS) • Audit trail & documentation	• GMP ISO 15189 • ESHRE good practice • Traceability & data integrity • Quality management (QMS)	• GMP • EU Tissues & Cells Directive • Traceability & custody • Audit & regulatory reporting	• GCP (clinical) • Informed consent • Traceability & documentation • Audit readiness	• GMP • EU Tissues & Cells Directive • Storage requirements • Retention & patient rights
XILTRIX value	• Early warning for samples • Real-time monitoring & alerts • Supports chain of custody • Audit-ready documentation	• Stable lab environments • Early-warning alerts • Lower risk of sample loss • Fits lab workflows	• Culture conditions watched • Incubator monitoring • Actionable alarms • Early warning for embryos	• Auto-fill: level & pressure • Closed valves flagged early • Redundant monitoring • Unattended storage covered	• Controlled procedures • Environmental visibility • Audit-ready evidence • EMR/LIMS link via REST API	• Long-term sample integrity • Continuous monitoring • Maintenance planning • Patient trust & compliance

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.



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 GxP

GMP | ISO 15189 | EU Tissues & Cells: validated monitoring, audit-ready