PathoQuest SIMPLIFY AND SECURE YOUR BIOSAFETY QUALITY CONTROL WITH NEXT GENERATION SEQUENCING (NGS)

Animal-Free: 3Rs compliant

Biologics (mAbs, Recombinant Proteins)

COMPLIANT, FASTER, ANIMAL-FREE





Adventitious Agent Testing | Plasmid Identity | Integration Site Analysis

SIMPLIFIED VIRAL SAFETY TESTING



Faster:

One assay replaces In Vivo Adventitious Agent Testing, MAP HAP RAP, In Vitro tests



Safer:

Comprehensive viral breadth of detection

UNMATCHED PRECISION FOR GENETIC CHARACTERIZATION



Identity:

- High-resolution sequence verification
 - Broad genomic coverage
- Detection of complex mixed populations



Integration Site Analysis:

Better understanding of your clones

2 GMP MIRROR FACILITIES



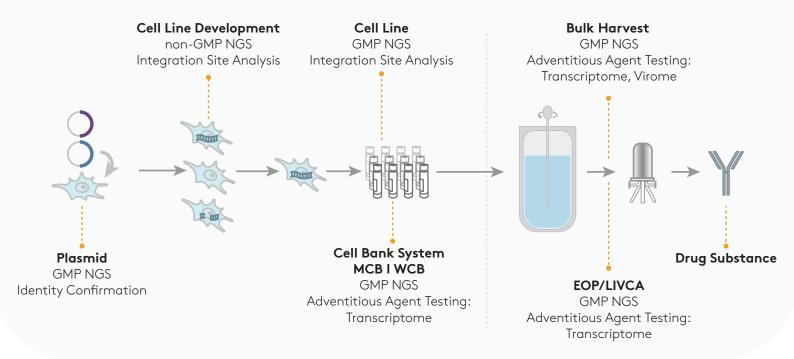
REGULATORY GUIDELINES

- ICH Q5A(R2) Viral safety (2023 revision)
- ICH Q5B-Expression construct analysis for production of r-DNA derived protein products
- ICH Q5D Derivation and characterization of cell substrates EMA Guideline: EMA/CHMP/BWP/457920/2012 Rev.1
- FDA Guidance for the Industry: Points to consider in the characterization of cell lines (1993)
- USP <1050> Viral safety from cell lines of human
- and animal origin
 WHO TRS 987 Annex 4 Guidelines on the quality, safety and efficacy of biotherapeutic protein products prepared by recombinant DNA technology
- Ph. Eur. 5.2.3/5.1.7 Cell substrates for the production of vaccines and biologicals and viral safety
- Ph. Eur. 2.6.41 High-throughput sequencing for the detection of viral extraneous agents: New chapter adopted in March 2025



UPSTREAM PROCESSING (USP)

DOWNSTREAM PROCESSING (DSP)



ASSAY SPECIFICATIONS

	Assay	GMP	Sample Requirements	Turnaround Time	Deliverables to Client
VIRAL SAFETY	iDTECT® Transcriptome For cell-based material	✓	Min. 3×10⁵ cells	5 weeks (Standard) 4 weeks (Fast Track)	Certificate of AnalysisExpert virologist reportRaw data
	iDTECT® Virome For cell-free material	✓	2×5 mL	6 weeks (Standard) 5 weeks (Fast Track)	Certificate of AnalysisExpert virologist reportRaw data
GENETIC CHARACTERIZATION	iDTECT® Identity	✓	Varies by sample type	3 weeks (Standard) 2 weeks (Fast Track)	Certificate of Analysis (% identity match to reference, presence and nature of variants)
	iDTECT® Integration Site Analysis		5×10° cells (≥10 µg DNA per sample)	5 weeks (per round)	ReportRaw data

Back up samples required. BSL1 and BSL2 samples accepted. | Shipment & storage: - 80°C/Dry Ice



CONTACT OUR EXPERTS

