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

Vaccines

COMPLIANT, FASTER, ANIMAL-FREE





Adventitious Agent Testing | Identity Confirmation

SIMPLIFIED VIRAL SAFETY TESTING



No neutralization needed:

Consistent and reproducible results that work the first time





Animal-Free: 3Rs compliant



Comprehensive adventitious viral agent detection and identification in a single assay step

Safer:

Comprehensive viral breadth of detection

2 GMP MIRROR FACILITIES



UNMATCHED PRECISION FOR GENETIC CHARACTERIZATION



Identity:

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

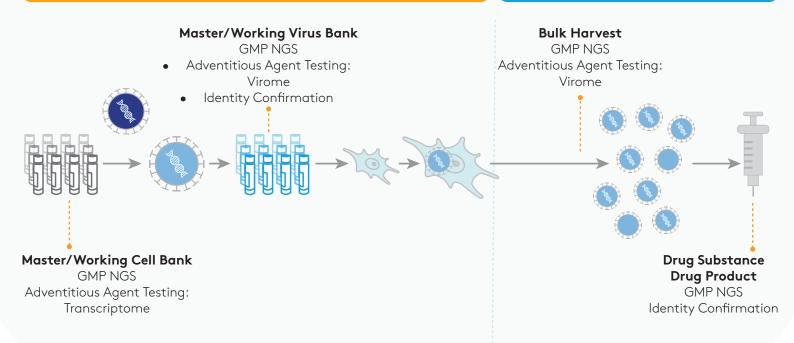
REGULATORY GUIDELINES

- ICH Q5A(R2) Viral safety (2023 revision)
- ICH Q5B Expression construct analysis for production of r-DNA derived
- 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)
- FDA GUIDANCE for industry Characterization and Qualification of Cell Substrates and Other Biological Materials Used in the Production of Viral Vaccines for Infectious Disease Indications - 2010
- USP <1050> Viral safety from cell lines of human and animal origin
- Ph Eur 2.6.16 Tests for extraneous agents in viral vaccines for human use
- Ph. Eur. 5.2.14 Substitution of in vivo method(s) by in vitro method(s) for the quality control of vaccines
- 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
- WHO TRS No. 978, Annex 3 (2010) Recommendations for the evaluation of animal cell cultures as substrates for the manufacture of biological medicinal products and for the characterization of cell banks
- WHO Expert Committee on Biological Standardization_80th report (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)

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







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