

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

Gene Therapies

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



Faster:

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



Safer:

Comprehensive viral
breadth of detection



Animal-Free:
3Rs compliant

UNMATCHED PRECISION FOR GENETIC CHARACTERIZATION



Identity:

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

2 GMP MIRROR FACILITIES



Wayne, PA



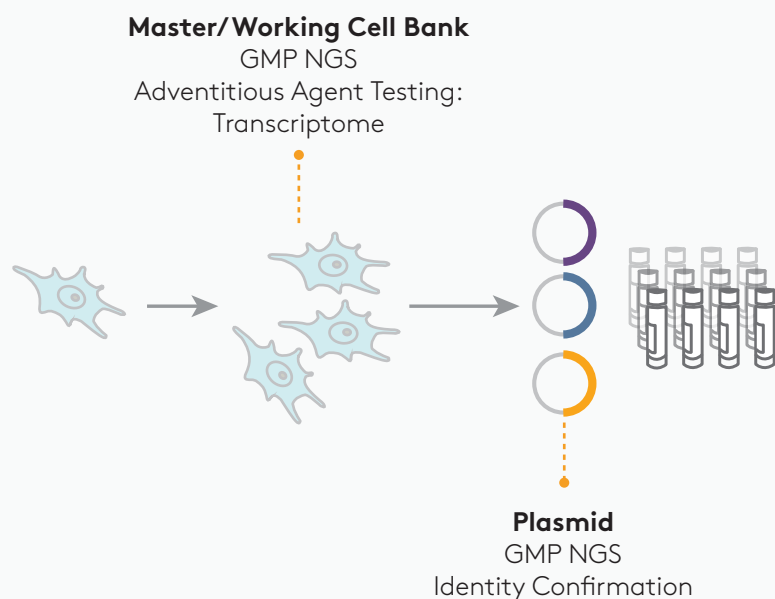
Paris



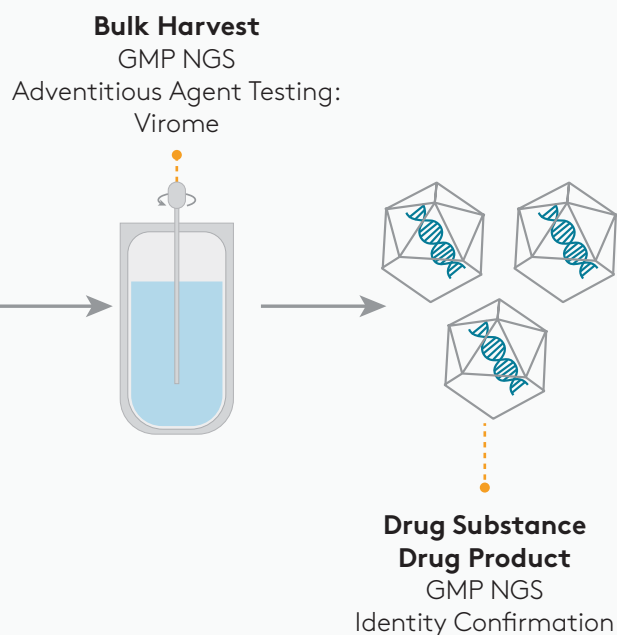
REGULATORY GUIDELINES

- ICH Q5A(R2) – Viral safety (2023 revision)
- ICH Q5D – Derivation and characterization of cell substrates
- EMA Guideline: EMA/CHMP/BWP/457920/2012 Rev.1
- EMA Guideline: EMA/CAT/80183/2014
- 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
- 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	iDETECT® Transcriptome For cell-based material	✓	Min. 3×10 ⁵ cells	5 weeks (Standard) 4 weeks (Fast Track)	<ul style="list-style-type: none"> Certificate of Analysis Expert virologist report Raw data
	iDETECT® Virome For cell-free material	✓	2×5 mL	6 weeks (Standard) 5 weeks (Fast Track)	<ul style="list-style-type: none"> Certificate of Analysis Expert virologist report Raw data
GENETIC CHARACTERIZATION	iDETECT® Identity	✓	Varies by sample type	3 weeks (Standard) 2 weeks (Fast Track)	<ul style="list-style-type: none"> 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



CONTACT OUR EXPERTS

contact@pathoquest.com
www.pathoquest.com

466 Devon Park Dr
Wayne, PA 19087
United States

Biopark - Bâtiment B,
11, rue Watt
75013 Paris, France

