

55+ in-house assays to ensure compliant GMP batch release and stability testing

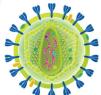


- · Vector identity
- Vector sequencing

Identity

- Integration titre
- · Particle to infectivity ratio
- Flow cytometry expression
- pH
- Appearance
- Osmolality
- Sub-visible particles

Biological activity



General

Purity/ impurity

Safety

Quantity

- RNA copy number

- Total protein (BCA)
- Total residual DNA
- Residual plasmid DNA
- Residual host cell DNA
- Residual host cell protein Residual sodium butyrate
- Residual endonuclease
- Residual PEI
- Residual SAN
- Residual SV40 DNA
- Residual E1A DNA
- Residual U1 snRNA
- Mycoplasma
- Sterility
- Bioburden
- Endotoxin.
- In vivo inapparent viruses & In vitro extraneous agents
- Replication competent lentivirus

Analytical methods are key to the successful manufacture of lentiviral vectorbased gene therapeutics and require specialist knowledge, techniques and equipment.

Characterisation assays

Mass spectrometry Dynamic light scattering

Primary T cell titerina







Commercial Manufacturing | Lentivirus



Established analytical offering

- √ In-house assays for full characterization, QC, and stability testing
- ✓ In-house GMP replication competent lentiviral (RCL) assay from purpose-built category-3 labs
- Routine development of custom product specific assays, such as identity and potency assays



Long track record

- √ 25+ years of extensive clinical and manufacturing experience including GMP manufacturing since 2014
- Analytical methods accepted by multiple regulatory agencies, including the FDA, EMA, MHRA, ANVISA and PMDA
- ✓ Analytical package used to release GMP-compliant batches for more than 15 products



Expert regulatory support

- Support with regulatory meetings, pre-licence inspection preparation and CMC documentation preparation for regulatory filings
- ✓ Redaction of quality section for numerous IND, CTA and BLA filings.
- √ Regulatory advice on the optimum selection of assays



Pushing the boundaries: innovation, digitalisation and automation

- √ High level of automation for higher throughput and cost reduction
- Development of new analytical methods to increase assay sensitivity and capability
- On-going digitalisation of comprehensive dataset to improve process productivity and quality





Cutting-edge digital and physical automated platform enabling high throughput optimisation services



State-of-the-art mass spectrometry facility for viral vector protein characterisation and residual HCP



We are a quality and innovation-led CDMO with over 25 years of experience, committed to helping our clients deliver cell and gene therapies that transform patients' lives.

We offer end-to-end capabilities, from plasmid design and optimisation, to clinical and commercial CGMP manufacturing, accompanied by robust control systems, analytical methods and deep regulatory knowledge.

Let's do something life-changing together

For more information please contact:

Oxford Biomedica +44 (0) 1865 783 000 www.oxb.com

partnering@oxb.com

