Your One-Stop-Shop for Viral Vector production



BIOVIAN

Contract Development and Manufacturing of Biopharmaceuticals **BIOVIAN** is your One-Stop-Shop in GMP contract development and manufacturing of Viral Vectors. We have established our position as an experienced, global GMP producer of Viral Vectors for gene therapy applications, immunoncology and vaccines. Biovian holds an EMA license for manufacturing of Viral Vector products for clinical trials as well as for commercial use.



"An expert CDMO partner can provide guidance on the ATMP procedure, as well as on producing or sourcing of specific GMP-grade components, reagents and consumables needed for Viral Vector production."

-Knut Ringbom, CEO

VIRAL VECTOR CDMO EXCELLENCE WITH IN-HOUSE PLASMID PRODUCTION

Adenovirus vectors Adeno Associated Virus vectors, AAVs Other biosafety level 2 (BSL2) class viruses. Plasmids

ONE-STOP-SHOP SERVICES FOR VIRAL VECTOR PRODUCTION



CELL BANKS AND VIRUS SEED STOCK

Research Cell Bank (RCB) Master Cell Bank and Working Cell Bank (MCB/ WCB)

Master Viral Seed Stock and Working Viral Seed Stock (MVSS/WVSS)



UPSTREAM PROCESSES

Suspension Cell Culture in single-use bioreactors – up to $200\,\mathrm{L}$

Adherent Cell Culture in multilayer flasks, packed-bed bioreactor and single-use bioreactors with microcarriers



DOWNSTREAM PROCESSES

Ultracentrifugation-based processes Chromatography-based processes Comprehensive purification solutions – chromatography, membrane processes, Tangential Flow Filtration processes (TFF)



ASEPTIC FILL AND FINISH

Formulation and final Drug Product manufacture Automated Aseptic Filling line for live Viral Vectors – Filling into vials Batch sizes 200–1000 vials



QUALITY ASSURANCE AND QUALITY CONTROL

Product specific assays
Impurity analysis
Cell based assays
Microbiological QC and safety assays
(sterility, bioburden, endotoxin etc.)
QP Certification and full GMP documentation

FINISHED PRODUCT,
READY FOR USE IN CLINICAL TRIALS

VIRAL VECTOR CDMO FACILITIES

The Viral Vector production facility of Biovian allows for flexible contract development and GMP production scenarios. The state-of-the-art, biosafety level 2, production facility includes:

200 L scale single-use bioreactor Chromatographic purification Tangential Flow Filtration (TFF) processes Full analytical support Full support for process development



PROCESS DEVELOPMENT SERVICES

Biovian provides comprehensive process development services that are fully integrated with process analytics. Our process development services support the Quality By Design (QBD) approach from the earliest possible stage in order to enable a straightforward transition to GMP production

Upstream Process development

Downstream Process development

Analytical development

Development and set-up of in-process control

Formulation development

VIRAL VECTOR QA DOCUMENTATION PACKAGE

The documentation packages for Viral Vector projects include e.g. the following:

TSE/BSE certificate
Certificate of Analysis
Certificate of GMP compliance
Comprehensive batch-manufacturing record
CMC package for IMPD/IND



From gene to finished vial – from the laboratory bench to the clinic

[&]quot;The regulatory documentation of Biovian is excellent."

⁻Client, Adenovirus vector project

EXPLORE OUR VIRAL VECTOR SERVICES



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