

**SOLVED  
WITH**  
INNOVATION & INTEGRITY

patheon

## Fill / finish services for viral vectors

We offer services for new and emerging, mid-size, and large biopharmaceutical companies and research institutions developing viral vectors and viral vaccines who need fill / finish capacity. Our solutions are flexible, comprehensive fill / finish services for viral vectors that comply with current regulatory and quality requirements.



### Why work with Thermo Fisher Scientific?

- Deep technical and analytical expertise
- Single-use equipment for maximum flexibility
- State-of-art fill / finish suites and equipment with continued expansion
- Extensive fill / finish experience:
  - More than 14 years experience with fill finish of viral vectors
  - 60 unique products
  - 150 GMP fill lots

### Our services

We offer fill / finish services that are part of a client's drug substance manufacturing program for viral vectors, viral vaccines, and virus-like particles:

- Formulation evaluation
- Sterile filter evaluation and validation studies
- Component compatibility testing
- Compounding, dilution, pooling, concentration capabilities
- Clinical and commercial GMP fill / finish
- Analytical testing
- Stability studies

### We also offer

- Full-service viral vector CDMO
- 30 clinical / commercial suites operational
- 3 late-phase / commercial manufacturing facilities
- 650,000 square feet of manufacturing capacity
- Available capacity
- Regulatory services

	Clinical	Commercial
Isolator technology	SKAN isolator with vaporized hydrogen peroxide (VHP) decontamination – Grade A in Grade C suite	
Filling equipment	Bausch + Ströbel	
Automation	Clinical - Semi-automated	Commercial - Fully automated
Batch size (units)	200-1500	200-5000
Fill volume (volume)	0.25 mL – 10 mL	
Minimized line losses for smaller volume fill	0.5 mL – 10 mL	
Vial size	100% inspection	
In-process control	100% weight check	
Container type	Glass or Crystal Zenith® (plastic)	
Primary packaging and labeling	Yes	
Short-term Storage	-80° C (other storage conditions as needed)	
Secondary packaging and labeling	Integrated offering through Bioservices Specialty Logistics by Thermo Fisher Scientific	
Long-term storage	Integrated offering through Bioservices Specialty Logistics by Thermo Fisher Scientific	
Cold-chain logistics and transportation	Integrated offering through Bioservices Specialty Logistics by Thermo Fisher Scientific	