

# Summary of capabilities

## Cambridge, Massachusetts

### Facility facts:

Workforce: 400+

Contact Info: 250 Binney Street  
Cambridge, Massachusetts 02142  
Tel: 781-325-1212

### Unique offering:

This site produces and tests viral vectors for gene and cell therapy with adherent and suspension cell culture processes, a variety of chromatography and filtration purification processes, and a state-of-the-art isolator and integrated fill system.

### Specialized capabilities:

- Phase III and commercial viral vector supply of AAV, Lenti, Adeno, HSV, and Retro
- cGMP analytical method expertise including method validation
- Process transfer and scale-up
- Process validation lifecycle including PC, PPQ, and CPV
- cGMP Cell Banking
- cGMP Cell Culture capabilities from adherent to suspension including 2,000L
- State-of-the-art commercial cGMP aseptic fill and finish

### Capabilities Overview:

Facility offering	Specifications				
GMP Manufacturing	<ul style="list-style-type: none"> <li>• 139,000 square feet; inclusive of 12 commercial suites, a cGMP warehouse, lab, and office space</li> <li>• Ten drug substance suites (grade C)</li> <li>• Two drug product suites (grade A isolators in grade C suite)</li> <li>• Flatstock to 2,000L STRs</li> </ul>				
	<table border="1"> <tr> <td>Suspension</td> <td>                     Commercial                     <ul style="list-style-type: none"> <li>• 50L Perfusion</li> <li>• 200L</li> <li>• 2x200L</li> <li>• 2000L</li> </ul> </td> </tr> <tr> <td>Adherent</td> <td> <ul style="list-style-type: none"> <li>• Commercial</li> <li>• 48 HYPERSTACK® 36-LAYER (48HS36)</li> <li>• 40 CellSTACK® 10-LAYER (40CS10)</li> <li>• iCELLis® 500</li> </ul> </td> </tr> </table>	Suspension	Commercial <ul style="list-style-type: none"> <li>• 50L Perfusion</li> <li>• 200L</li> <li>• 2x200L</li> <li>• 2000L</li> </ul>	Adherent	<ul style="list-style-type: none"> <li>• Commercial</li> <li>• 48 HYPERSTACK® 36-LAYER (48HS36)</li> <li>• 40 CellSTACK® 10-LAYER (40CS10)</li> <li>• iCELLis® 500</li> </ul>
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Warehouse/Distribution Center	<ul style="list-style-type: none"> <li>• cGMP material (incoming/outgoing) ambient, cold, frozen, and LN2 storage</li> <li>• QC raw material sampling and testing</li> </ul>				

Brammer Bio is now Patheon Viral Vector Services.

# Summary of capabilities

## ADENOVIRAL

Adherent + Suspension
Mammalian cells infection

## AAV

Producer cell line + Ad	Adherent + Suspension	Suspension + HSV	Suspension + Baculovirus
Mammalian cells + infection	Mammalian cells transient transfection	Mammalian cells	Insect cells – infection

## LENTIVIRAL

Packaging/ Producer cell line	Adherent + Suspension
Mammalian cells	Mammalian cells transient transfection

## RETROVIRAL

Packaging/ Producer cell line	Adherent + Suspension
Mammalian cells	Mammalian cells transient transfection

## HERPESVIRAL

Adherent + Suspension
Mammalian cells infection



## Summary of capabilities

# From molecule to medicine: An integrated partner for every step in your drug development journey.

Thermo Fisher Scientific provides industry-leading pharma services solutions for drug development, clinical trial logistics, and commercial manufacturing to customers through our Patheon brand. With more than 60 locations around the world, we provide integrated, end-to-end capabilities across all phases of development, including API, biologics, viral vectors, cGMP plasmids, formulation, clinical trial solutions, logistics services, commercial manufacturing, and packaging. Built on a reputation for scientific and technical excellence, we provide pharma and biotech companies of all sizes instant access to a global network of facilities and experts across the Americas, Europe, Asia, and Australia. We offer integrated drug development and clinical services tailored to fit your drug development journey through our Patheon™ Quick to Care™ program. Our Patheon™ Quick to Clinic™ programs for large and small molecules help you balance speed and risk during early development so you can file your Investigational New Drug Application (IND) quickly and successfully. Digital innovations such as our mysupply Platform and Pharma 4.0 enablement offer real-time data and a streamlined experience. Together with our customers, we're rapidly turning pharmaceutical possibilities into realities.

