

# HEPA-FILTERED GOODS LIFT



Grade C



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## THE CLIENT

Manufacturers of proprietary, synthetic DNA and mRNA products for applications in Cell & Gene Therapies and vaccines. 4basebio offer RUO AAV manufacturing services for partners developing gene therapies, offering targeted non-viral vectors for partners wishing to deliver therapeutic nucleic acid or proteins to specific cells and tissues.

## THE BRIEF

The client was looking to expand their manufacturing capacity with the introduction of two floors of new Grade C modular cleanrooms, including process rooms, solutions preparation areas, change areas, cleanroom corridors, several personnel and materials airlocks, separative devices and a bespoke HEPA goods lift, in an existing office park premises in Cambridgeshire.



Cell & Gene Therapy



21 ± 2C  
45% ± 10% RH



400m<sup>2</sup>



**“All the client’s requirements were catered to by the team...”**

Guardtech Group Operations Director Conor Barwise said: “This project presented the team with a variety of challenges due to the relatively large number of process spaces and change areas in a restricted overall footprint.

“However, over the past 20 years, Guardtech Cleanrooms have encountered a wide variety of different projects with space, access and operational limitations and the Design and Install teams worked brilliantly together to ensure all of the client’s requirements were catered to.”

**Conor Barwise**  
Guardtech Group  
Operations Director



**Guardware**  
cleanroom hardware

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## THE FIT-OUT

For this project we understood the client needed their biotechnology innovation to travel across multiple sequences and spaces. We included a H14 HEPA filtered goods lift, clear perspex enclosure, electro-magnetically interlocked and mechanically interlocked polypropylene transfer hatches to support their quick processes. Waste hatches and chutes, electro-magnetically interlocked polypropylene transfer hatches also supported this progression. Alongside this, we used stainless steel stepover benches with shoe compartments, stainless steel pigeon holes for shoe storage, powder-coated steel lockers, wall-mounted stainless steel dispensers and stainless steel sinks with motion sensor taps. The point-of-use heater was plumbed into the water supply and connected to drainage.

Biological Safety Cabinets and Trespa Toplab workbenches facilitate their rapid biotechnology, whilst Contamination Control Flooring laid on the "dirty" side of the Primary Change Areas supplement their manufacturing process.



**Floored layout:** To support the client's efficiencies, we needed to provide a separated waste transfer system for incoming product and outgoing goods via a split hatch and a dedicated bespoke waste chute. Top floor construction continued whilst the lower floor was still fully operational for the client, but the Guardtech Cleanrooms Installation Engineers have a great deal of experience in constructing environments in conjunction with ongoing client process.

**Tight planning and management by Guardtech ensured their work was never compromised, even**

**when the team also had to overcome incoming goods from the ground floor to the first floor with the HEPA-filtered transfer hatch.**

Guardtech Group Operations Director Conor Barwise said: "This project presented the team with a variety of challenges due to the relatively large number of process spaces and change areas in a restricted overall footprint.

"However, over the past 20 years, Guardtech Cleanrooms have encountered a wide variety of different projects with space, access and operational limitations. We understand bespoke, complex product and equipment requirements and will see them through to suit client needs."