

MECART | CASE STUDY

A VACCINE MANUFACTURING FACILITY BUILT IN UNDER 5 MONTHS

LOCATION

Montreal, Canada

INDUSTRY

Pharma / Biotech

APPLICATION

Vaccine Production and Biomanufacturing

DIMENSIONS

14,000 sq. ft.

CLEANROOM CLASS

GMP (Grade B, C & D)



The National Research Council Canada (NRC) was mandated by the Government of Canada to establish the new Biologics Manufacturing Centre at their Royalmount site in Montreal, Quebec. The new GMP-certified Biologics Manufacturing Centre supports the manufacturing of vaccine candidates and/or biologics in response to the current and future pandemics. Both Phase 1 and Phase 2 were awarded to Mecart. Phase 1-a 14,000 sq. ft. cleanroom, was completed in the summer of 2021 and Phase 2- a 10,000 sq. ft. cleanroom, will be completed in the fall of 2022.



This 14,000-square-foot clean room (phase 1) was delivered in less than 5 months. The entire biomanufacturing facility was completed only 10 months after breaking ground.

“Modular was the better choice for a faster completion. It was 100% exactly what we expected! Mecart really delivered the product that was intended.”

Project description: Multiple GMP Class B, C, and D cleanrooms in a biologics manufacturing & vaccine facility. The cleanroom suite includes a media preparation room, a packaging room, two subculture rooms, and a buffer preparation room.



To accommodate equipment, the main production room includes a dual level ceiling, from 10 feet to 14 feet high.

MODULAR CLEANROOM: A FASTER SOLUTION

Modular panels are manufactured off-site simultaneously as the conventional (stick-built) construction breaks ground, allowing projects to be **completed 30 to 50 percent faster** than traditional construction alone.

Here are a few advantages of choosing modular

- ✔ Modular walls can be removed to accommodate new, larger equipment as needed (2,000L bioreactors, for example)
- ✔ Design flexibility (mobility, expandability, etc.)
- ✔ Cleaner installation on site
- ✔ Faster installation on site
- ✔ Higher and consistent quality, since production is done under an ISO 9001 quality management system at Mecart's plant

