



Biotech company that collects and transports time-sensitive blood plasma samples from 82 donor centers.



Challenge

Lack of insight and visibility throughout the handling process leads to a portion of delicate **biomedical samples in quarantine**.



Solution

Location-enabled insight across all processes and touch points helps minimize waste and **meet FDA regulations** with efficiency.



Results

Real-time location and inventory tracking of biomedical material containers results in annual **savings of \$10-\$15M**.

Critical Tracking Points

Sample Arrival

Plasma samples arrive at the facility, are unloaded and transferred to a facility pallet, which have to be moved to the freezer right away. The loading dock is not refrigerated, so it's critical to move the pallets into the freezer as soon as they are unloaded.

Sample Excursions

At the time of production, pallets are moved to a cold sorting room (+5° C) for sorting by origin and profile. The sorted samples are then placed on other pallets, then back into the freezer. In between, samples go on excursions where there is a threshold for how long they can be out of the freezer.

Summary Of Tracking Needs:

The company wants to track dwell time in each zone so that samples do not sit for too long before reaching their temperature threshold. They also want to capture complete movement history for seamless compliance with FDA regulations.

Cloudleaf Solution

Providing a complete system to accurately monitor location, dwell times, condition and history, the company has experienced a reduction in re-testing, spoilage and waste, amounting to millions of dollars saved. At any time the FDA does a compliance check, a complete record of movement history is available with the click of a button, resulting in significant administrative cost savings.