

Available for Purchase

Multi-purpose cGMP Pharmaceutical/Electronic Chemicals Sample Prep Lab

The Sample Preparation Laboratory (Prep Lab) was designed to be a self-supporting process development/scale-up facility. The building has a three-story process area containing glass and glass-lined carbon steel equipment up to 200-liters and a two-story office/laboratory area. The Sample Prep Lab was commissioned in 1993.

The laboratory area contains two 350-sq. ft. process development labs, each with one walk-in and one bench hood. A third 900-sq. ft. lab is designed for bench-top analytical equipment and has two walk-in hoods. The second story office area also has a meeting room and two shower/change-room facilities.



The ground floor of the process contains 4300-sq. ft. with four process bays which are 19-feet by 22-feet. The flooring in each bay is acid brick. There are two operator stations located on the ground floor. Each bay is supplied with -5°C and 125°C circulating glycol/water solutions for process heating and cooling requirements, nitrogen and cooling water.

The second and third floors of the process areas contain 2700-sq. ft. and have 7-feet by 22-feet openings above the process area to allow for installation of taller equipment such as distillation columns and packed beds.

The upper stories have ancillary support systems such as USP Purified Water, vacuum systems, and vent scrubbers.

The process areas contain two 200-liter glass-lined carbon steel receivers, designed for operating pressures from full vacuum to 90 psig. There are two 100-liter and one 100-liter glass reactor systems with overheads. All reactors have circulating glycol on the jacket for temperature control. There are two 0.25 square meter, agitated stainless steel pressure filters. The filters also have glycol solution on the jackets. The other major equipment is a 50-liter rotary evaporator and a molecular still with 10 feet of structured packing. The still has oil heating to allow high temperature operation and is capable of pressures of less than 0.05 tor.



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