

LIFE SCIENCES – BioTech / Pharmaceutical

# Novartis (formerly Chiron) High Throughput Screening Lab



## OVERVIEW

IES provided specialized process and chemical engineering design for Novartis' (formerly Chiron) Analytical Chemistry high throughput screening lab. IES' design encompassed complete solvent supply and distribution system for direct feed to analytical equipment and waste collection systems to minimize manual solvent handling on 4<sup>th</sup> floor lab.

## PROJECT DETAILS

- Retrofit existing Analytical Chemistry Laboratory
- Design HPLC grade Acetonitrile and Water solvent delivery systems from 200L bulk supply vessels direct to HPLC and other analytical equipment.
- Design solvent waste drain and collection system.
- Provide chemical pharmacy with RFID tracking system
- Revise laboratory plan to facilitate increased flammable solvent storage and use within existing building control areas and new hazardous occupancy solvent storage and dispensing room.

## IES SOLUTIONS

- Provided complete instrumentation schedule and control logic design.
- Resolve issues related to tight pressure tolerances of analytical systems pump inlets.
- Resolve issues related to microbubble formation due to cavitations of inert gas supply used for solvent delivery.
- Provide unique design for variable speed waste solvent lift station to accommodate varying HPLC demand and waste generation.
- Provide waste solvent collection system from HPLC's various waste connections.

## LOCATION

Emeryville, California

## TEAM (PARTNERS)

Architect: Flad Architects

## PROJECT DURATION

Design & Permit: 13 weeks

Construction: 28 weeks

## PROJECT VALUATION

\$3,000,000 - \$5,000,000

## ABOUT IES

Integrated Engineering Services (IES) is an established firm providing innovative and cost-effective solutions to meet your complex engineering, design and operational needs.

**When experience, knowledge and innovation matter most.**

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