



Pharmaceuticals & Biotechnology

Client

Roche Products

Location

Buenos Aires, Argentina



Interior

Roche Oral Solid Dosage Facility

Project Description

CH2M HILL Lockwood Greene provided a full range of services for Roche Products, from basic design to validation, including detail engineering, cost estimate and control, procurement, and construction management for a solid dosage 100,000 SF facility.

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The facility was designed to fulfill the following requirements for pills, effervescent tablets, and small pills:

- Temperature and humidity control accuracy of $\pm 0.5^{\circ}\text{F}$ and ± 1.0 percent RH.
- Pneumatic product transportation with dry filters acting as air cleanser and dust retainers and automatic feeding to compressing equipment.

Production capacity and technology were upgraded in order to fulfill regional requirements. The new laboratory is compliant with GMP, FDA, and local regulations, and includes Class 100 sterile clean rooms, compound formulation and dry mixing chambers, slurry mixing and aging suites, product compression and finish, as well as bulk product coating, multiple high speed bottling and packaging lines, and automated clean warehouse materials handling.

The laboratory upgrades enabled computerized batch record keeping and produce stock tracking, which will enable future growth and further efficiency. The project resulted in production efficiencies of 40 percent which translated into a 45 percent reduction in overtime.