

THE LILLY RESEARCH LABORATORIES

Research in Manufacturing Pharmaceuticals and Biologicals

Every step in the manufacture of pharmaceutical and biological products calls for scientific supervision.

Crude vegetable drugs must pass botanical inspection; chemical tests and assays are also needed to make certain that materials used in manufacturing are of the proper identity and quality.

Research work is carried on all the year in the laboratories at Indianapolis and Greenfield, Indiana. During the summer a branch is maintained in the Marine Biological Laboratories, Woods Hole, Massachusetts, for investigations involving marine forms.

The Lilly Research Laboratories are equipped for work in synthetic chemistry, physiological chemistry, physiology, pharmacology, bacteriology and immunology. On account of experience in industrial chemical research, we are especially prepared to undertake the problems of turning purely scientific discoveries to practical use. Our research staff cooperates with investigators in universities and clinics.

Chemical and physiological assays are necessary to standardize finished products. The manufacture of antitoxins, vaccines and biologicals used in medical practice require the knowledge and skill of those trained in chemical, physiological and bacteriological sciences.

In addition to maintaining a staff for scientific supervision of manufacturing processes, years ago we saw the necessity of organizing a research department for the improvement of established preparations and the development of new medical products. The building pictured above is devoted entirely to scientific work.

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Two 35kv-a converters and four 17 lb. steel melting furnaces used at plant of Ajax Electrothermic Corp. The converters operate 24 hours per day, five and one-half days per week. One furnace is operated from each converter. Double throw switches, one of which is visible, between right hand converter and furnace, change power from one furnace to another between melts. Two furnaces are poured and charged while metal is being melted in the other two.

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