



Syndel Laboratories Ltd.

Syndel Laboratories Ltd. is one of the only manufacturers of research grade chemicals in Canada. The product line consists of a variety of organic chemicals and biochemicals, both extracted and synthesized. The company was established in 1977, and now enjoys an international market for its products, with regular sales in the United States, Europe and Asia, as well as in Canada.

To accommodate this wide market distribution, sister companies Syndel Biochemicals Ltd. and Syndel Biochemicals (U.K.) Ltd., have taken over the marketing of the Laboratories' products. Syndel Biochemicals Ltd. is responsible for marketing in North America and Asia, and Syndel Biochemicals (U.K.) Ltd. is responsible for the European market. Syndel Biochemicals (U.K.) Ltd. is located in Northampton, Great Britain, Telex number 312646 Parksy G. Syndel Biochemicals Ltd. is located at the same address as Syndel Laboratories Ltd.

Syndel Laboratories Ltd. produces many chemicals used mainly for diagnostic nuclear medicine, university research, human disease treatment and aquaculture. Syndel's areas of activity include synthetic chemicals, natural source products, aquaculture biochemicals, custom syntheses, as well as doing contract research and assays.

To support these areas of activity, the staff of Syndel Laboratories consists of experienced chemists, biochemists, biologists, and zoologists as well as marketing personnel with international background. In addition, Syndel has access to many other levels of expertise as required.

Syndel Laboratories has extensive experience and the facilities to perform a wide range of reactions and extractive techniques. The chemical manufacturing laboratory includes complete distillation, filtration and reaction facilities capable of handling up to several hundred litres at a time. All syntheses are conducted in glass or glass lined equipment, and reaction conditions from -70°C to $+200^{\circ}\text{C}$, and from 760 mmHg to 10 mmHg are available.

The company is also particularly well suited for the preparation of temperature sensitive biological compounds. The biochemical laboratory has a wide range of extraction, separation and purification capabilities. This

laboratory has an array of chromatographic columns, both refrigerated (4°C) and room temperature (20°C), a high pressure liquid chromatograph, lyophilizing facilities, and analytical equipment such as electrophoresis units, a UV-visible spectrophotometer, a liquid scintillation counter and other necessary laboratory equipment.

In keeping with Syndel Laboratories Ltd.'s commitment to a high technology manufacturing industry, data processing equipment has been incorporated into the company.

The wide experience of Syndel Laboratories Ltd. allows these facilities to be adapted to accommodate changing concepts and requirements as well as carry on research projects to continue to broaden its abilities.

A full line of scintillation fluors and other liquid scintillation counting products, such as PPO, POPOP, Dimethyl POPOP, Bis MSB, Hyamine hydroxide and liquid scintillation cocktails is presently being manufactured. Syndel Laboratories Ltd. is the only Canadian manufacturer of the liquid scintillation fluors and is one of four in North America.

A wide range of biochemically useful compounds such as hydroxyurea, Ellman's reagent, O-benzylhydroxylamine hydrochloride, and synthetic peptides are also produced. Syndel Laboratories also has available a number of products important in current genetic research. These include nucleosides, coupling agents, and protecting agents.

Most of the synthetic procedures used by Syndel Laboratories are multi-stepped sequences involving a wide variety of reactions. In addition to Syndel's regular product line, synthesis of custom compounds is done on a regular basis.

Syndel Laboratories Ltd. has the expertise to extract and purify a number of naturally occurring compounds from plant and animal matter. Some of these products are protamine sulfate, DNA, and emetine hydrochloride. Syndel is also a unique source of fresh frozen and lyophilized non-mammalian organs.

Many countries are turning to aquaculture as a method of increasing the amount of protein available as food. Syndel Laboratories produces an ever-widening group of biochemicals for this developing aquaculture market. These products fit into the two areas of major concern to aquaculturists:

1. Disease Control
2. Seed Development

Many of the popular disease control agents are available from Syndel. These include bactericides, fungicides and parasiticides such as Ovadine (a buffered solution of Povidone-iodine containing 1% active iodine), oxytetracycline hydrochloride, malachite green and several sulfa drugs. Syndel Laboratories also produces tricaine methanesulphonate, a popular anaesthetic for cold blooded animals, as well as other anaesthetics such as 2-phenoxyethanol and quinaldine.

Syndel Laboratories has available several hormone

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