

## SEIKAGAKU'S BUSINESS OUTLINE

Seikagaku seeks to be a company that truly makes a difference in peoples' lives by pursuing original research & development and ecologically-aware manufacturing aimed at improving the quality of life, society and the environment.

Seikagaku's main areas of product involvement are ethical pharmaceuticals and medical devices based on glycoconjugates, research biologics (used for research and testing in quality control and safety), diagnostics (used for the early detection and monitoring of diseases) and pharmaceutical bulk, raw materials in numerous pharmaceutical, cosmetic and health food products. With the dramatic discoveries taking place in glycoconjugate research around the world, Seikagaku has dedicated itself to furthering its contribution to the improvement of health through Glycoscience for human well-being.

SUPARTZ®



ARTZ Dispo®



OPEGAN Hi®



BUSINESS SEGMENT	PRODUCTS	DESCRIPTION
Pharmaceuticals and Medical Devices	Intra-articular injections for improving joint functions ARTZ®, ARTZ Dispo®, SUPARTZ®*1, ARTZAL®:	First launched in 1987, and currently commercially available in 19 countries. Used widely by many doctors and patients throughout the world as the formulation of first choice for the treatment of knee osteoarthritis and periarthritis of the shoulder*2. Now highly evaluated and used worldwide with over 100 million injections performed internationally to date.
	Ophthalmologic surgical aids OPEGAN® 0.6, OPEGAN® 1.1, OPEGAN Hi®:	OPEGAN® is the first domestically produced sodium hyaluronate formulation used in ophthalmic surgery. Sodium hyaluronate with high viscosity is used in cataract surgery to facilitate the procedure by retaining the intraocular space.
Research Biologics	Carbohydrate-related reagents, Saccharides, Enzymes Antibodies:	For over 40 years Seikagaku has been contributing to the advancement of glycoscience with these essential reagents for glycobiology.
	Endotoxin-detecting reagents:	Mainly for quality control of pharmaceuticals, medical devices, and dialysate.
	Food allergy related test kits:	Test kits used by food processors to detect the commingling in the manufacturing process of food substances likely to cause allergies, such as eggs, wheat, buckwheat, peanuts and milk-for assurance of food safety.
Diagnostics	Diagnostics for invasive fungal infections: FUNGITEC® G TEST MK FUNGITEC® G TEST TE	These are the first diagnostics in the world for the detection with a high sensitivity of (1,3)-beta-D-glucan, a constituent of fungi. Now available in the United States as FUNGITELL™.
Bulks for Pharmaceutical Products	Sodium hyaluronate:	Mainly sold to pharmaceuticals companies as a raw material.
	Sodium chondroitin sulfate:	Widely used as a raw material for pharmaceuticals, ophthalmic products and drinks for nutritional fortification.
	Liver hydrolysate:	Sold mainly as an ingredient of OTC medications for liver conditions.
Others	Oral Care Periodontal regeneration material Emdogain® Gel:	Medical device for use in dentistry to induce regeneration of periodontium.
	Mouthwash KINUSUI:	A novel blend using sodium hyaluronate that is ideal for those who have sensitive mouths and for elderly people, because it does not contain alcohol.

\*1. SUPARTZ® is a trade name for North America and some parts of Western Europe. \*2. Applicable in some countries.