sawai

Original Innovative Pharmaceutical Technology

AWAI HARMOTE

Striving for a world in which "Good medicine tastes 'better' to the mouth."

Making generics easier to take, easier to handle, and more accessible. Sawai Pharmaceutical aims for a future in which "Good medicine tastes better to the mouth" becomes a matter of course through its innovative pharmaceutical technology.

SAWAI HARMOTECH® offers six different technologies to enhance drugs.

Technology that makes it easier to swallow medicine and makes medicine more portable, easier to handle, and easier to store... SAWAI HARMOTECH® is a term for Sawai Pharmaceutical's original innovative pharmaceutical technology that adds value to generic drugs and harmonizes pharmaceutical formulations.



Featured Technology



Pursuit of reduction of oral tablet and more stable supply.

As a conventional drug-layering technology, commercially available granule cores are coated with a drug suspension to manufacture drug-loaded particles. Due to the limited size of the commercially available particle cores, smaller granule cores cannot be manufactured with conventional technology making the coated granule cores larger in size. In addition, a substantial amount of time is required for the uniform coating of drug particles, resulting in poor production efficiency. Sawai has established an agitating granulation technology in which the mixture of drug and sticky "gelatin-like core particles (partly pregelatinized starch)," which are smaller in diameter than the general granule cores, are sprayed with water. The surface of the resulting drug-loaded cores can be coated by a functional ingredient such as a pH-dependent or pH-independent polymer in order to mask any undesirable taste including bitterness.



Because this technology enables the manufacture of highly drug-loaded particles, the number of particles required per tablet is reduced, leading to a reduction of the tablet size. Additionally, the drug products containing highly drug-loaded particles are smaller in diameter and feel smoother in the mouth, resulting in improved mouthfeel. Furthermore, the reduced coating time improves production efficiency, resulting in a contribution to a stable supply.

% Patent : Jpn. Unexamined Patent Publication 2021-130618 (foreign application or registration submitted)

Featured Technology

SARAMEL_®

"Rapidly dissolving" premix excipients



Pursuit of development of high quality drug products.

Tablets, especially orally disintegrating (OD) tablets, are required to (1) be strong enough to withstand handling during the distribution process, (2) disintegrate with a small amount of water when orally taken and (3) be moisture resistant (preventing tablet damage due to deterioration of tablet hardness and tablet swelling from moisture). A drug product is therefore expected to possess these contradictory properties in a well-balanced manner. Although the development of the OD tablet requires meeting this expectation, it can be difficult to achieve. Sawai has addressed these specific challenges and developed an original premix formulation of excipients (SARAMEL®) with the properties required for OD tablets. SARAMEL®, comprised of commonly used excipients, can be used in various formulations, facilitating efficient development and high-quality drug products.

Easy to handle!

SARAMEL® will be given to tablets highly strength and moisture-resistant property and thus improves the handling ability of the tablets.

High manufacturing efficiency

 SARAMEL® improves the tablet manufacturing efficiency and thus contributes to a stable supply.

Applicable to various drugs!

SARAMEL®, comprised of common excipients, can be applied to various drugs and is being extensively used in many products.



** Patent : Pat. No. 6606287 (foreign application or registration submitted) and Pat. No. 6651638 (foreign application or registration submitted)

Featured Technology





Pursuit of improved ease of oral intake.

As insoluble or poorly absorbable drugs have been increasingly developed in recent years, many newly developed products are comprised of a large amount of drug substance. Consequently, the tablets developed are large in size. Additionally, if the drug substance load is reduced to make a miniaturized tablet and improve the ease of oral intake, more tablets have to be taken orally per dose, potentially leading to poor patient adherence. To achieve easy swallowing of a large tablet or multiple tablets, Sawai has developed a new tablet-coating technology by using a particular polymer and gelatinizing agent. Regarding the film-coating technology (THRUCOAT_®), a gelatinous layer will be formed on the surface when the coating comes in contact with the water used for oral intake, reducing the resistance when passing through the throat. The tablets coated with a mixture of a particular polymer and gelatinizing agent to release the drug after swallowing.

