

September 27, 2021

Daicel Corporation

– Resources from the forest, returning to the sea –  
**CAFBL<sup>TM</sup>, a highly biodegradable cellulose acetate, receives the marine biodegradability certification “OK biodegradable MARINE”**

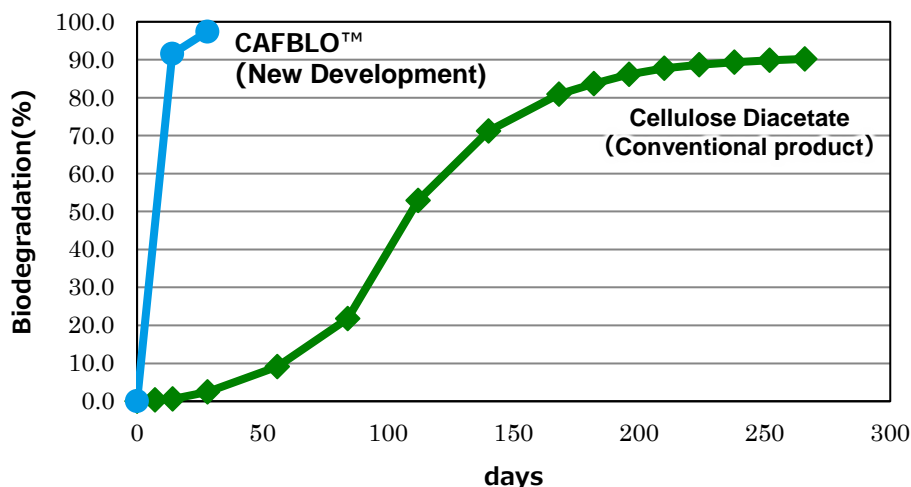
Daicel Corporation (Head office: Kita-ku, Osaka, Japan; President & CEO: Yoshimi Ogawa) is pleased to announce that its CAFBL<sup>TM</sup> product obtained “OK biodegradable MARINE”, an international certification for marine biodegradability, in August 2021. This is the second such validation following the granting of the “OK compost INDUSTRIAL” certification for biodegradability in an industrial composting plant.



■ **Cellulose acetate, a natural and eco-friendly material**

Cellulose acetate is a naturally-derived, biodegradable, eco-friendly material manufactured from plant-derived cellulose and naturally occurring acetic acid. After disposal, cellulose acetate biodegrades into water and carbon dioxide in its final stages. Moreover, because it is made mainly from non-edible ingredients, it will have no negative effect on future food production.

By applying the cellulose chemical technology we have developed over many years, we have devised a molecular structure that facilitates biodegradability. As a result, our new product CAFBL<sup>TM</sup> exhibits an enhanced biodegradation rate, especially in seawater, while maintaining the same quality as conventional products.



**Marine biodegradability of conventional cellulose acetate vs our new product**  
 (testing performed in accordance with the “OK biodegradable MARINE” certification scheme of TÜV AUSTRIA)

## ■ Providing a solution to the issue of marine plastic waste

The large amount of plastic waste generated today contributes to marine pollution and the destruction of marine ecosystems. In recent years, the negative impact of such pollution on ocean fisheries and concerns for human health have become major social issues. We are helping to provide a solution to this problem by promoting the widespread adoption of cellulose acetate, particularly CAFBLO™, our highly biodegradable cellulose acetate product.

Cellulose acetate is a material widely used in common products such as eyeglass frames, fibers, LCD protective films, and cosmetics. The addition of a plasticizer allows it to be thermoformed like other plastics. Going forward, we will continue to collaborate with our partner companies and administrative entities to develop applications for conventional cellulose acetate and highly biodegradable CAFBLO™ cellulose acetate in products at risk of being lost or discarded in marine environments.



Clear pellets



Eyeglasses frame



Molded products

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