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## Regarding the biodegradability of

### “Lachevert Body Soap”

(Request No. 65-2541)

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## 1. Introduction

We would like to report the biodegradability of “Lachevert Body Soap” based on the Request number 65-2541.

## 2. Test method

### 2-1 Test sample

- Lachevert Body Soap
- Lachevert Shampoo
- Lachevert Conditioner
- Conditioner (other company’s product)

### 2-2 Biodegradability test

Biodegradability test was conducted in accordance with OECD Guidelines for Testing Chemicals 301 C Modified MITI test.

BOD (biochemical oxygen demand) was measured using the automatic BOD measuring device (BOD Trak, HACH COMPANY USA).

Activated sludge (collected from the septic tank in our factory) was added to the basic culture medium at 30 ppm as dry matter. Test sample was added to a concentration of approximately 100 ppm organic matter and incubated at 20°C for 10 days.

A diluted solution was prepared so that the organic concentration in the sample is approximately 25 ppm. TOD was measured using TOD measuring device (MODEL 1548, IONICS).

Biodegradation was calculated by Formula 1.

Formula 1:  $\text{Biodegradation (\%)} = (\text{BOD} - \text{B}) / \text{TOD} \times 100$

BOD: BOD measured value of testing material

B: BOD measured value with the activated sludge and the basic culture medium only, (blank)

TOD: Total oxygen demand required when the sample is fully oxidized.

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### 3. Result

#### 3-1 Biodegradability test

Fig. 1 shows the biodegradation of Lachevert Shampoo, Lachevert Body soap, Lachevert Conditioner and Conditioner (other company's product)

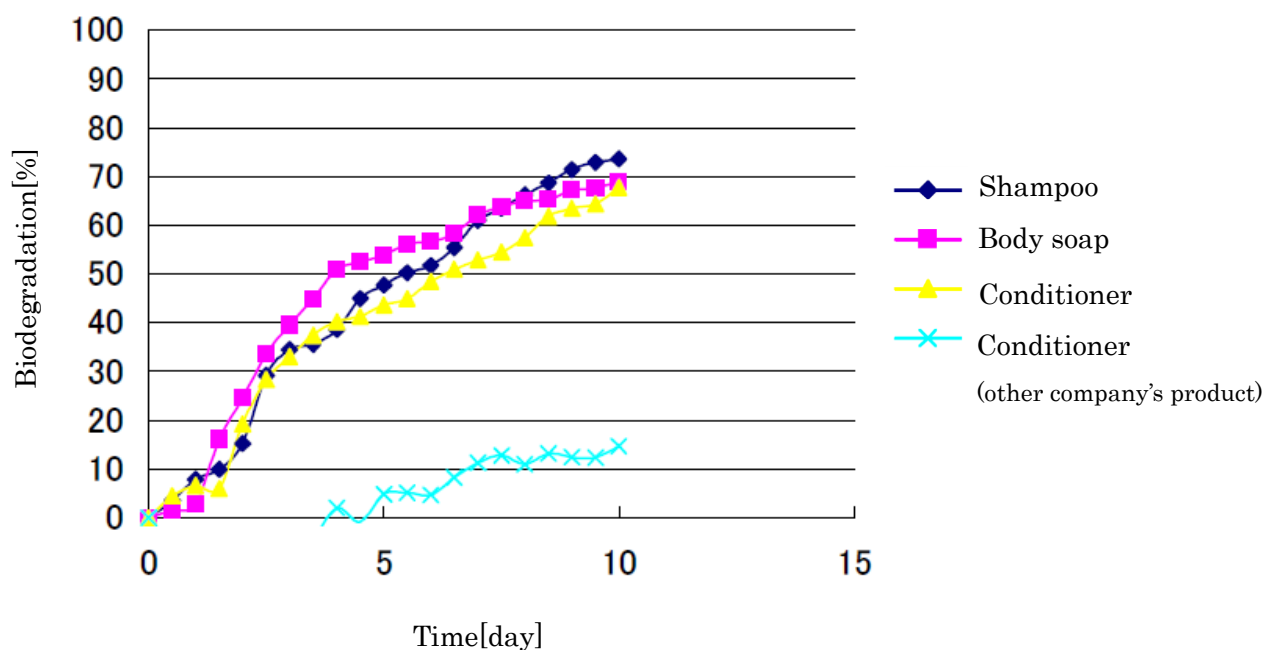


Fig. 1 Biodegradability measurement results

According to OECD Guideline, substances that degrade more than 60% within 28 days are deemed to be readily biodegradable.

From the result of Fig. 1, "Lachevert Body Soap" satisfies the pass level.

Therefore, this product can be determined as readily biodegradable.