

SARAYA CO., LTD.

2-2-8, Yuzato, Higashisumiyoshi-ku, Osaka 546-0013 Japan Tel No. :+81-6-6797-2525 Fax No. :+81-6-6797-2290

**Preparation Date** : May 15, 2012  
**Translation Date** : Aug. 22, 2023

## Regarding the biodegradability of

### “Lachevert Fano Shampoo”

(Request No. 65-2541)

#### Index

---

1. Introduction	.....	1
2. Test method	.....	1
3. Results	.....	2

---

SARAYA CO., LTD.

2-2-8, Yuzato, Higashisumiyoshi-ku, Osaka 546-0013 Japan Tel No. :+81-6-6797-2525 Fax No. :+81-6-6797-2290

**Preparation Date** : May 15, 2012  
**Translation Date** : Aug. 22, 2023

## 1. Introduction

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

## 2. Test method

### 2-1 Test sample

- Lachevert Fano Shampoo
- Lachevert Fano Body soap

### 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 50 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.

SARAYA CO., LTD.

2-2-8, Yuzato, Higashisumiyoshi-ku, Osaka 546-0013 Japan Tel No. :+81-6-6797-2525 Fax No. :+81-6-6797-2290

Preparation Date : May 15, 2012  
Translation Date : Aug. 22, 2023

### 3. Result

#### 3-1 Biodegradability test

Fig. 1 shows the biodegradation of Lachevert Fano Shampoo and Lachevert Fano Body soap.

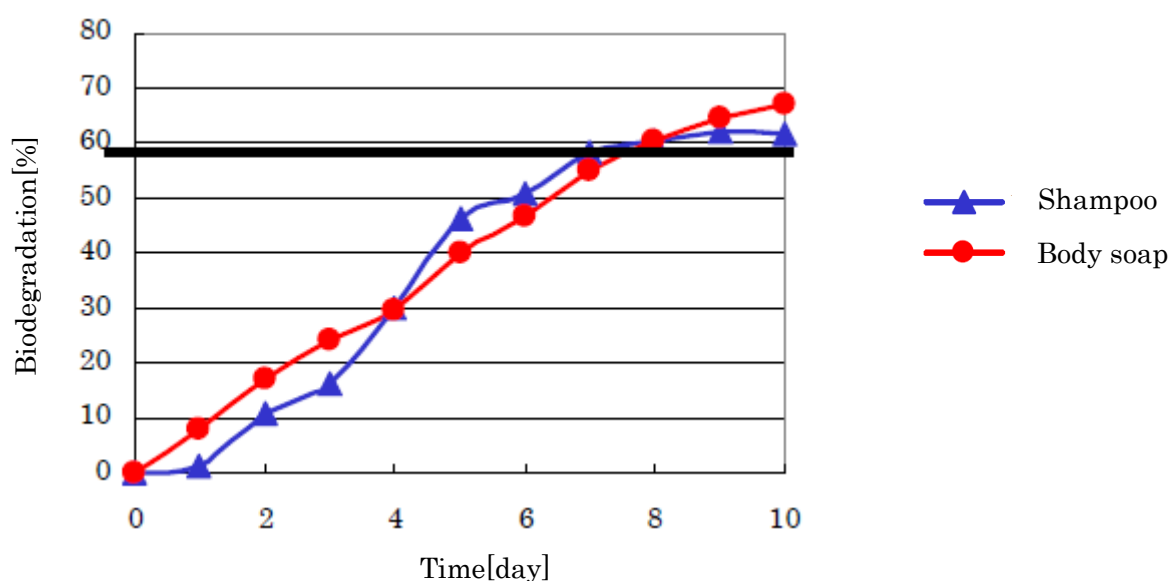


Fig. 1 Biodegradability measurement results

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 Fano Shampoo” satisfies the pass level.

Therefore, this product can be determined as readily biodegradable.