



Toothfriendly International

Zahnfreundlich International

Sympadent International

## **Confirmation of Toothfriendly Quality**

IMMERWA Toothcream Family Recipe No. PN 18-0026

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## **1. Introduction**

In order to qualify for "Toothfriendly" certification, children's toothpaste must contain a sufficient amount of bioavailable fluoride.

The fluoride content and the recommended conditions of use are as follows:

From eruption of the first tooth to the second birthday:

Fluoride content: 500 – 1000 ppm

Recommended use:

at 500 ppm: pea-size amount (about 250 mg), once per day

at > 500 ppm: smear (about 100 mg), once per day.

From the second to the sixth birthday:

Fluoride content: 500 – 1000 ppm

Recommended use: pea-size amount (about 250 mg), twice per day.

From the sixth to the twelfth birthday:

Fluoride content: 1000 – 1500 ppm

Recommended use: pea-size amount (about 250 mg), three times per day.

The "fluoride content" of a toothpaste is its content of bioavailable fluoride calculated from measurements of fluoride in the aqueous suspension of the toothpaste with a fluoride-sensitive electrode or, if appropriate, in the toothpaste/saliva mixture recovered quantitatively after toothbrushing. This method allows to detect (a) interactions between sources of fluoride and other components of the toothpaste that could impair its caries-preventive efficacy and (b) changes of the bioavailable fluoride content due to inappropriate storage conditions and storage time of the toothpaste.

## **2. Test products**

A children's toothpaste product, IMMERWA Toothcream Family Recipe No. PN 18-0026 was obtained in May 2018 from D-Mutter Naturkosmetik GmbH for examination of its "Toothfriendly" quality.

## **3. Methods**

The tests were performed according to documented Standard Operation Procedures by Mrs. B. Sener (chief technician) and Mrs. P. Irenen-Weber (technician) at the Bioelectronic Unit of the Department of Preventive Dentistry, Periodontology and Cariology of the University Dental Institute of Zürich headed by Prof. Dr. Thomas Attin.

#### **4. Results**

The obtained results (attached) demonstrate that the following product contains a sufficient amount of bioavailable fluoride.

IMMERWA Toothcream Family Recipe No. PN 18-0026

#### **5. Caveat**

The reported results and conclusion pertain to the product identified and tested. Any change of the composition of the product would need an assessment for its impact on the "Toothfriendly" quality.

This report forms the basis for the right to distinguish products of demonstrated Toothfriendly quality with the pictorial "Toothfriendly" trademark. However, the right to use that trademark in relation to tested products can be acquired only by means of a license agreement.

Toothfriendly International



Dr. Albert Bär

## Ionisiertes Fluor in Zahngel und Zahnpaste von BCI

09.05.2017

**Zahnpaste:** 1 - BCI Ökoase Kinder Zahngel Apfel mit Fluorid, B4007(1) 16.04.2018  
2 - BCI SAM / IMMERWA Toothcream Family PN 18-0026 JR000214(2) 16.04.2018

**Firma:** BCI

Einwaagen: (g)		Zahnpaste (g)	bidest.Wasser (ml)
1-1		1,0226	10,0
1-2		1,0598	10,0
2-1		1,1521	10,0
2-2		1,1044	10,0

**Elektrode 1:** (mV)

$10^{-2}$	211,7
$0.5 \cdot 10^{-2}$	341,0
$10^{-3}$	268,5
$0.5 \cdot 10^{-3}$	285,4
$10^{-4}$	325,5

### **Probenvorbereitung:**

1g Zahnpaste und 10 ml dest.Wasser 15 Minuten in einem 50ml Plastikbecher auf dem Magnetrührer gemischt. Nach der Zentrifugation werden die Proben mit Tisan verdünnt (1ml+1ml) und mit der ionenselektiven Elektrode messen.

	mV	Ø mV	ppm F	ppm F	
Probe 1-1	259,3				
	258,9	259,1	71,957	776	
Probe 1-2	256,8				Ø ppm F 779
	256,4	256,6	75,018	783	
Probe 2-1	236,4				
	236,2	236,3	105,213	1018	Ø ppm F 1022
Probe 2-2	237,3				
	238,1	237,7	101,934	1025	

**Berechnung:**  
ion. ppm F  $\frac{\text{ppm F} \times (\text{Einwaage} + 10.0)}{\text{Einwaage}}$

**pH-Wert in der Probelösung:**  
Probe 1 pH 5.98  
Probe 2 pH 5.99