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Study number: ST-AT-2026-00167

Voden Filters
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Serbia

Muenster, 11.08.2026

Expert report by dermatological specialist about a dermatological application study

(Test period June/July 2026)

on 20 subjects with application (home in-use) of test product once daily on the body and hair over a period of four weeks

Examination for dermal tolerability including a final questionnaire

Water Filter

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1 General information

Title

Application study under dermatological control

Testing body

Dermatest GmbH
Nevinghoff 30
D-48147 Münster

Specialist in dermatology

Dr. med. Werner Voss
Specialist in Dermatology
Venereology, Allergology,
Phlebology and Environmental Medicine

Study coordinator

Pia Beer
Biologist

1.1 Synopsis

Table 1: Synopsis of the study

Study title	Application study under dermatological control
Test product	**Water Filter**
Product type	Water filter
Study design	Single-centre
Testing body	Dermatest GmbH Nevinghoff 30 D-48147 Münster
Expert report version and date	Version 1, 11.08.2026
Test period	June/July 2026
Primary study objectives	Assessment of skin tolerability
Secondary study objectives	Assessment of efficacy - Query of the subjective impression by questionnaire
Quantity of subjects	20
Application period	Four weeks (home in-use)
Times of measurement	Questionnaire: T_{28}
Frequency of application	Once daily
Inclusion criteria	- 18 years and older - Female and male healthy volunteers - Skin type: any - Written informed consent of the subjects or legal guardian is available
Exclusion criteria	- Severe or acute skin inflammations - Severe internal or acute diseases - Short-term and acute intake of medications that may interfere with skin reactions (glucocorticoids, anti-allergics, immunomodulators, etc.) - Application of prescription preparations and skin care products 7-10 days before the start of the test - Severe allergies or any serious side effects of cosmetic preparations ever occurred - Intensive sun baths or solarium visits during the study - Acute neoplastic disease - Pregnancy and breast-feeding

1.2 Schedule

Table 2: Schedule of the study

Study day	Day 0	Day 28
Information of the subjects	✔	
Informed Consent Form Sheet	✔	
Medical history	✔	
Dermatological examination	✔	✔
Compliance with the inclusion and exclusion criteria	✔	✔
Query of the subjective impression		✔

2 Introduction

The human skin is the largest and functionally most versatile human organ. It delimits the organism against the outside world, protecting against dehydration and environmental influences. The skin consists of three layers: Epidermis (upper skin layer), dermis (true skin) and subcutis (hypoderm). The epidermis, in turn, is composed of five layers and consists of 90 % keratinocytes (horny cells). From outside to inside, the superimposed layers are: *Stratum corneum*, *Stratum lucidum*, *Stratum granulosum*, *Stratum spinosum* and *Stratum basale*.

These days a lot of products, in particular cosmetics, consumer goods and medical devices, are in contact with the skin daily and often over long periods. Good tolerability is a prerequisite for application of these products. Since alternative test methods such as animal testing are prohibited and results of cell culture experiments can be applied to humans only in limited extent, tests under medical supervision are currently required from an ethical and scientific point of view. For analysis of the skin tolerability of products, application studies, so-called home-in-use tests, can be carried out. The product to be tested is applied over a prolonged period on the intended application area. Inclusion and exclusion criteria of the subjects are adapted to the target group as far as possible. Before each testing the risk of all ingredients of the test product are assessed. All available information is systematically analyzed in order to identify potential hazards and to avert risks.

3 Study objective

The objective of this study was to precisely investigate the skin tolerability of the product **Water Filter** according to dermatological test criteria.

Before inclusion the dermatological integument of all subjects was investigated regarding health and integrity. In case of necessary medical treatment the subjects were excluded. Furthermore, the conditions of the study were explained to all subjects as well as the rights and duties of the subjects in the context of the study by the attending study nurse or the attending dermatologist. All subjects were included into the study only, if they did not exhibit any pathological changes of the skin in the application area, signed the consent statement of their own free will or with agreement of their legal guardians and complied with all other inclusion and exclusion criteria. During the study all subjects could consult the attending study nurse or the attending dermatologist in case of any objective and subjective skin changes. According to the schedule, all dermatological examinations were done.

3.1 Primary outcomes

Assessment of skin tolerability

- Application study

3.2 Secondary outcomes

Assessment of efficacy

- Query of the subjective impression by questionnaire

3.3 Study parameters

Monocentric trial over a period of four weeks in total.

4 Selection of subjects

The study was carried out with 11 female and 9 male subjects in the age of 18 years and older according to the inclusion and exclusion criteria. All subjects were selected from the subject database or recruited by flyers, social networks and newspapers.

4.1 Information of the subjects

Before the study all subjects were informed about the course of the study by the attending study nurse or the attending dermatologist. Participation in the study was voluntary. All subjects could discontinue the study at any time and without giving any reason as well as without any negative consequences for the subjects.

4.2 Inclusion criteria

- 18 years and older
- Female and male healthy volunteers
- Skin type: any
- Written informed consent is present

The subjects had to be able to communicate with the attending study nurse or the attending dermatologist and to understand and follow the requirements of this clinic-dermatological application study.

4.3 Exclusion criteria

- Severe or acute skin inflammations
- Severe internal or acute diseases
- Short-term and acute intake of medications that may interfere with skin reactions (glucocorticoids, antiallergics, immunomodulators, etc.)
- Application of prescription preparations and skin care products 7-10 days before the start of the test
- Severe allergies or any serious side effects of cosmetic preparations ever occurred
- Intensive sun baths or solarium visits during the study
- Acute neoplastic disease
- Pregnancy and breast-feeding

4.4 Exclusion of subjects from the dermatological application study

The investigator could exclude a subject from the dermatological application study if any of the following conditions occurred:

- Revocation of the consent
- Occurrence of an undesirable event
- Deterioration of the clinical condition

If premature withdrawal of a subject happened, it was documented completely. Supervision of these and all subjects continues for reasonable time in order to control condition and occurrence of adverse events.

4.5 List of subjects

Table 3: List of subjects

Subject №	Sex [f/m]	Age
1	f	42
2	m	46
3	f	43
4	f	50
5	f	50
6	m	44
7	f	34
8	f	37
9	m	44
10	f	37
11	m	36
12	m	46
13	m	43
14	f	26
15	f	45
16	m	55
17	m	48
18	m	36
19	f	74
20	f	54

5 Test product

5.1 Application of the investigational product

The product was applied on the body and hair once daily over the entire application period. The subjects were instructed not to use any equivalent product in the test area during the test period.

The Voden shower filter is designed to improve the quality of water that comes into contact with the skin and hair during showering.

Tap water in most European countries, including Germany, is commonly disinfected using chlorine. While this is important for water safety, repeated exposure to chlorinated water, especially during warm or hot showers, may contribute to skin dryness, a feeling of tightness after showering, and scalp or hair dryness.

The purpose of the filter is to reduce chlorine and related impurities before the water reaches the skin and hair. The product has been independently tested (SSG laboratory) for chlorine reduction performance.

The product is installed directly onto the shower and is used in the same way as a regular shower, without any change in user behavior.

The subjects were instructed to use the product as follows: Shower once a day as usual using the water filter. Wash your body and hair during the shower.

5.2 Interruptions / Discontinuation of the application

Application of the test product could be discontinued at any time by the subject or according to the decision of the investigator, if the condition required so. Each discontinuation was documented completely. It was the responsibility of the investigator to assess, whether conditions for discontinuation were given.

6 Benefit-risk consideration and precautions

There was no known risk for use of the product. If a residual risk was recognized or if a change in acceptance of the product was evident, the sponsor was notified immediately.

If during the study 10 % or more of the test subjects experienced a product-related reaction, that was not acceptable for the corresponding product category, the study was terminated immediately and the sponsor was informed accordingly.

7 Methods

7.1 Dermatological examination

7.1.1 Evaluation of skin condition

The examinations are carried out by a dermatologist or trained specialist according to clinical-expert grading criteria. For this purpose, all subjects are examined at the beginning and end of the application period. The examination includes all symptoms of pathological skin changes or signs of intolerance caused by the test product used. Typical signs of intolerance are redness, itching, scaling, swelling and any other undesirable skin reaction, e.g. a feeling of tightness, change in colour or inflammation. The skin condition is assessed and analyzed for its significance for the area of application.

If skin reactions occurred, the type of the reaction was assessed clinically dermatologically and documented according to following scale:

–	no pathological findings
1	mild reaction
2	moderate reaction
3	severe reaction

7.1.2 Adverse reactions / FM-050

Adverse skin reactions that occur during the dermatological examination or during the application period are documented in the FM-050 Detection of Adverse Reactions: intensity, occurrence, duration and evaluation of the reaction by a dermatologist.

7.2 Query of the subjective impression

Very disparate and non-measurable parameters (subjectively experienced effect, smell, taste, consistency, influence on the appearance of the skin, etc.) can be determined by means of a final questionnaire. Correspondingly each subject answered independently the respective questionnaire at scheduled times. In case of uncertainty, the attending study nurse or the attending dermatologist could be consulted and questioned at any time.

7.3 Descriptive Statistics

The values of the individual measurements are averaged, and the differences of the before and after values and the relative change of the mean values are calculated.

8 Results

8.1 Dermatological examination results

The examinations were carried out according to clinical-dermatological evaluation criteria. All test persons showed healthy skin in the test area before, during and after the application study. No pathological skin lesions were found in any form. No test interruption, even less treatment by a specialist in dermatology was performed in any case. The product named was very well tolerated, and it did not lead to dermatologically relevant skin changes in any subject.

Table 4: Dermatological examination results

Subject №	Findings before	Findings after	Type of reaction
1	–	–	
2	–	–	
3	–	–	
4	–	–	
5	–	–	
6	–	–	
7	–	–	
8	–	–	
9	–	–	
10	–	–	
11	–	–	
12	–	–	
13	–	–	
14	–	–	
15	–	–	
16	–	–	
17	–	–	
18	–	–	
19	–	–	
20	–	–	

If skin reactions occurred, the type of the reaction was assessed clinically dermatologically and documented according to following scale:

–	no pathological findings
1	mild reaction
2	moderate reaction
3	severe reaction

8.2 Query of the subjective impression

The question of the subjective impression was made with the help of a final questionnaire.

Skin

1. After showering with the Voden shower filter, my skin felt less dry.		
answer	**number**	**percent**
Fully agree	1	5,0%
Tend to agree	14	70,0%
Rather disagree	5	25,0%
Do not agree at all	0	0,0%

2. After showering with the Voden shower filter, my skin felt less tight.		
answer	**number**	**percent**
Fully agree	4	20,0%
Tend to agree	10	50,0%
Rather disagree	6	30,0%
Do not agree at all	0	0,0%

3. My skin felt softer after regular use of the Voden shower filter.		
answer	**number**	**percent**
Fully agree	1	5,0%
Tend to agree	12	60,0%
Rather disagree	7	35,0%
Do not agree at all	0	0,0%

4. My skin felt more comfortable after showering.		
answer	**number**	**percent**
Fully agree	4	20,0%
Tend to agree	11	55,0%
Rather disagree	5	25,0%
Do not agree at all	0	0,0%

5. I experienced less skin itchiness after showering.		
answer	**number**	**percent**
Fully agree	3	15,0%
Tend to agree	6	30,0%
Rather disagree	2	10,0%
Do not agree at all	2	10,0%
My skin doesn't itch	7	35,0%

6. My skin felt less irritated after showering.		
answer	**number**	**percent**
Fully agree	2	10,0%
Tend to agree	10	50,0%
Rather disagree	2	10,0%
Do not agree at all	1	5,0%
I don't have irritated skin	5	25,0%

7. The shower water felt gentler on my skin compared to my usual shower water.		
answer	**number**	**percent**
Fully agree	8	40,0%
Tend to agree	7	35,0%
Rather disagree	5	25,0%
Do not agree at all	0	0,0%

8. I noticed an improvement in the overall feel of my skin after 4 weeks of use.		
answer	**number**	**percent**
Fully agree	3	15,0%
Tend to agree	11	55,0%
Rather disagree	6	30,0%
Do not agree at all	0	0,0%

Hair

9. My hair felt softer after washing with the Voden shower filter.		
answer	**number**	**percent**
Fully agree	4	20,0%
Tend to agree	10	50,0%
Rather disagree	6	30,0%
Do not agree at all	0	0,0%

10. My hair felt less dry after regular use of the Voden shower filter.		
answer	**number**	**percent**
Fully agree	3	15,0%
Tend to agree	10	50,0%
Rather disagree	7	35,0%
Do not agree at all	0	0,0%

11. My hair felt smoother after washing.		
answer	**number**	**percent**
Fully agree	2	10,0%
Tend to agree	10	50,0%
Rather disagree	6	30,0%
Do not agree at all	2	10,0%

12. My hair felt healthier after regular use of the Voden shower filter.		
answer	**number**	**percent**
Fully agree	1	5,0%
Tend to agree	11	55,0%
Rather disagree	8	40,0%
Do not agree at all	0	0,0%

13. I noticed an improvement in the overall feel of my hair after 4 weeks of use.		
answer	**number**	**percent**
Fully agree	2	10,0%
Tend to agree	12	60,0%
Rather disagree	5	25,0%
Do not agree at all	1	5,0%

Scalp

14. My scalp felt more comfortable after showering.		
answer	**number**	**percent**
Fully agree	1	5,0%
Tend to agree	13	65,0%
Rather disagree	6	30,0%
Do not agree at all	0	0,0%

15. My scalp felt less dry after regular use of the Voden shower filter.		
answer	**number**	**percent**
Fully agree	1	5,0%
Tend to agree	12	60,0%
Rather disagree	7	35,0%
Do not agree at all	0	0,0%

16. I experienced less scalp itchiness after showering.		
answer	**number**	**percent**
Fully agree	1	5,0%
Tend to agree	7	35,0%
Rather disagree	4	20,0%
Do not agree at all	0	0,0%
I don't have an itchy scalp	8	40,0%

17. I experienced less scalp discomfort after showering.		
answer	**number**	**percent**
Fully agree	1	5,0%
Tend to agree	6	30,0%
Rather disagree	2	10,0%
Do not agree at all	1	5,0%
I don't have any scalp problems	10	50,0%

Overall Experience

18. I noticed a difference compared to my usual shower water.		
answer	**number**	**percent**
Fully agree	6	30,0%
Tend to agree	8	40,0%
Rather disagree	5	25,0%
Do not agree at all	1	5,0%

19. I would continue using the Voden shower filter after the study.		
answer	**number**	**percent**
Fully agree	12	60,0%
Tend to agree	4	20,0%
Rather disagree	4	20,0%
Do not agree at all	0	0,0%

20. I would recommend the Voden shower filter to others.		
answer	**number**	**percent**
Fully agree	10	50,0%
Tend to agree	5	25,0%
Rather disagree	5	25,0%
Do not agree at all	0	0,0%

21. How would you rate the skin compatibility of the shower wash?		
answer	**number**	**percent**
very good	12	60,0%
good	4	20,0%
bad	4	20,0%
very bad, because	0	0,0%

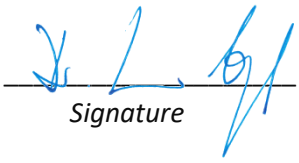
9 Assessment of the study results

9.1 Skin tolerability

The test product **Water Filter** was applied once daily onto the body and hair over a period of four weeks by 20 subjects. From the clinical-dermatological perspective no relevant skin reactions arose, the product was tolerated very well. Neither intolerance reactions in terms of skin irritation nor allergic reactions (contact dermatitis) were detected.

Accordingly, from the dermatological point of view, the tested product **Water Filter** exhibits no high potential for skin irritationse, when used as intended.

Dr. med. Werner Voss
Specialist in Dermatology
Venereology, Allergology,
Phlebology and Environmental Medicine



Signature

Pia Beer
Biologist



Signature

10 Addendum

10.1 Quality control, quality assurance and data protection

The quality of the study execution and of the data recording was ensured by ISO 9001 and checked in regular intervals internally as well as externally by monitoring through TÜV Rheinland.

The provisions of the applicable data privacy legislature were respected. All data of the subjects were handled confidentially and are disclosed to the sponsor only in a pseudonymized version. All data are stored for ten years.

10.2 Certificate

- Skin tolerability

Voden Filters
Bulevar Maršala Tolbuhina 22
11070 Belgrade
Serbia

Muenster, 11.08.2026

Certificate

about the product

Water Filter

Application study under dermatological control
(Test period June/July 2026)

Study number ST-AT-2026-00167

The test product was applied over a period of four weeks by 20 subjects once daily on the body and hair. From the dermatological point of view no relevant skin reactions occurred in the test area. The product was tolerated

„excellently"

Neither intolerance reactions suggestive of irritation nor allergic reactions (contact dermatitis) were detected. Accordingly, from the dermatological point of view there is no high potential for irritation by the tested product when used as intended.

Based on the study design chosen and the confirmed skin tolerability, **the 5-star seal can be used** for the test product.

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TÜVRheinland ZERTIFIZIERT Management System ISO 9001:2015