



HARKE

Home & PersonalCare



Skin Care

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Biodiversity Applied Straight To Your Skin

June 2021

Skin Care

29 June – National Mud Day: Our new partner Uute Scientific Oy is the company that drives towards a “Life without immune-mediated diseases”, such as diabetes 1, allergies and asthma. These immune-mediated diseases have become a large problem worldwide. They are caused by our modern and urban lifestyle. Us drifting away from nature with its microbial diversity has made our immune-system weaker. This is significant especially during childhood, when it is being developed.

Uute Scientific Oy owns the trademark called Reconnecting Nature™. It is the microbe extract, which brings microbial diversity of natural environments back to people and helps them in the development of a strong immune system.

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Biodiversity Hypothesis

Biodiversity Hypothesis means, that microbial change due to biodiversity loss is associated with an increase in immune-mediated diseases.

Biodiversity has been declining decisively throughout the west over the past 70 years. This loss of biodiversity is changing the microbial exposure we face. It means, that the defense system

of humans and animals, in other words, the immune system, does not receive proper training. Such inadequate immune defense training leads to immune-mediated diseases. Hence, there is a need to rectify the situation. That is where Reconnecting Nature™ microbe extract steps in offering a helping hand.

Reconnecting Nature™ is the extract with microbial diversity from natural environments

If you do not want to move to the countryside and thereby change your lifestyle completely in order to reduce the risk to develop immune-mediated diseases, there is an alternative for you to do so anyway. Reconnecting Nature™, which can come in the form of, for example, a very fine powder or other

material shapes, is an extract from the nature. It is the substance with the diverse microbes from forests and agricultural environments, which help to correct the development of the immune system.

From Finnish forests and meadows into standardized microbial communities

The core idea is to mimic the rich biodiversity found in forests and bring that to customers in a safe and easy-to-use form. This microbe extract have a biodiversically rich microbial composition. It is measured by the Shannon's diversity index and amount of species. In order to ensure batch to batch standardization and efficacy Uute Scientific Oy use Next Generation Sequencing (NGS).



Reconnecting Nature™ extract is meant to get in contact with the skin

It is mixed with or integrated to daily consumer products that get in contact with skin, such as fabrics and creams. Reconnecting Nature™

is not taken orally yet, it effects through the skin. Daily use stimulates the immune system.

FORMULATION*: Skin Creme with Reconnecting Nature™ microbe extract

Phase	INCI Name	Trade Name	%
A	Water	Water	qs to 100,00
A	Glycerin		3,00
A	Xanthan Gum	HARKE Care Xanthan H / HARKE	0,20
B	Caprylic/Capric Triglyceride	ERCAREL TCC / HARKE	22,00
B	Cetyl Alcohol	ERCANOL C 16 V / HARKE	5,00
B	Cetearyl Oliviate/Sorbitan Oliviate		5,00
B	Squalane		2,00
C	Humus Extract	Reconnecting Nature™ extract / HARKE	1,00
D	Sodium Benzoate/Potassium Sorbate		1,00
E	Citric Acid		pH <5,5

PROCEDURE

1. Mix the water and glycerin together and start heating the mixture. While mixing, sprinkle in the Xanthan Gum and mix until uniform and phase A reaches 75 °C.
2. Add together the ingredients of phase B and heat to 75 °C.
3. Once both A and B phase are 75 °C, under an overhead stirrer, pour phase B into phase A. Mix for about 10 minutes at 1000rpm or higher until the emulsion is uniform.
4. Keep mixing at a low speed while the emulsion cools down. Once the emulsion reaches 40 °C, sprinkle in phase C and let mix until evenly dispersed.
5. Add phase D and mix.
6. Finally adjust the pH to below 5,5 with Citric Acid.

*Note: The information and recommendations given are, to the best of our knowledge, information and belief, accurate at the date of publication. HARKE Chemicals GmbH assumes no obligation or liability for results obtained or for injuries and no responsibility for the use of its products. It is the responsibility of the user to determine the effectiveness, compatibility, safety and stability of their products and also to ascertain that these preparations do not infringe patents or other industrial property rights held by third parties.



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