

COSMETIC NEWSLETTER

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**QUARTERLY
FORMULATION:**
BODY LOTION O/W (low cost)

Editorial

In the actual issue of our cosmetic newsletter we will present you even more novelties than usual, since majority of our principals have come out recently with their new developments during the In-Cosmetics 2009.

We will present you Hitecream 3000, the new O/W emulsifier from Sinerga and we are happy to announce that Ecocert-certified tocopherols are already available from BTSA.

We also have some exciting news to you from IBR, since their IBR-Snowflake, the botox substitute product's activity is now fully backed up by in-vivo test results and we are also showing new studies on the water retention activity of Betafin BP20 from Danisco.

Concerning our formulation tip section, following requests from some of our partners and readers we include this time a low cost body lotion formulation.

Although global economical situation shows it's signs also in the chemical industry, it seems personal care segment is somewhat less affected. Let's hope we have reached already the bottom and situation will only improve from now on.

Holiday season is also approaching and I wouldn't miss the opportunity to wish you a pleasant relaxation!

Ferenc Elekes — Sales Manager

BIOXAN® T-50 sf: Tocopherols go ecocert!



Antioxidants, as key ingredients of cosmetic formulations, are not left aside when it comes to development of naturally-certified products.

BTSA manufacture **Natural Antioxidants** based on **Natural Vitamin E**. They are totally committed with the cosmetic industry and therefore they have already got the ECOCERT Certification for two products, with some more in the pipeline.

As per today, we are delighted to suggest to you the use of the following

antioxidants in your natural formulations:

- **BIOXAN® T-50 sf: Mixed Tocopherols from sunflower oil**

This is the sole ecocert-certified blend of the 4 tocopherol isomers in their naturally occurring ratio, at 50% concentration. Besides its **antioxidant properties**, **BIOXAN® T-50 sf** provides the **biological activity** of Vitamin E too. The dosage as antioxidant is 0,05-0,1%, and as active is min. 1%. INCI Name: Tocopherol (Mixed)

- **TOCOBIOL® c synergistic antioxidant combination**

It is well known that the efficacy of antioxidants can be boosted by using them in combination with the same substances that make up their medium in natural conditions. This is the aim of **TOCOBIOL® c** (INCI Name: Tocopherol, Beta-Sitosterol, Squalene), a 100% natural antioxidant obtained based on **tocopherols** (natural isomeric ratio) combined with the natural substances that remain after the extraction (sterols, squalane, monoglycerides). The synergy between the components of **TOCOBIOL® C** translates into **great antioxidant properties**. It is used at 0,05-0,1% (regarding the fat content).

HITECREAM® 3000: The smoothness enhancer

HITECREAM® 3000 is a plant-based emulsifier for O/W formulations. It is made up by a balanced combination of vegetable origin O/W emulsifiers, as reflected on its INCI Name: Potassium Palmitoyl Hydrolyzed Oat Protein, Behenyl Alcohol, Palm Glycerides, Sodium Stearoyl Glutamate, Sucrose Palmitate. **HITECREAM® 3000** is suitable to formulate all purpose cosmetic emulsions and emulsion-gels, being particularly indicated for **fluid emulsion formulations with a light and evanescent touch**.

The **sensorial properties** of personal care products based on **HITECREAM® 3000** are unique. This has been proven by comparing the smoothness of the skin after application of a cream with **HITECREAM® 3000** and the same product based on a similar traditional emulsifier. This efficacy study measures the skin volume (indirect measure of smoothness) with VISIOSCAN®. The results speak by themselves:

	Time = 0	Time = 30 min	Difference
Placebo	88	70	-20.5%
HITECREAM® 3000	82	49	-40.2%

The lower the value, the smoother the product

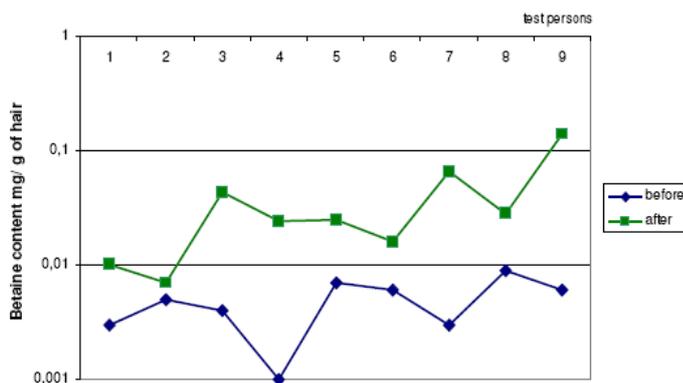
HITECREAM® 3000 is very easy to handle and to work with. The recommended use level ranges from 5 to 10%; the best results have been obtained at 7.5% with about 12% of lipids.

BETAFIN BP20: additional proves on water retention

BETAFIN BP20 (trimethylglycine, INCI name: betaine) is an organic osmolyte with excellent moisturising properties among other interesting cosmetic activities. **DANISCO** have run additional testing to prove the performance of that ingredient in two specific applications: **Shampoo** and **Wet Wipes**.

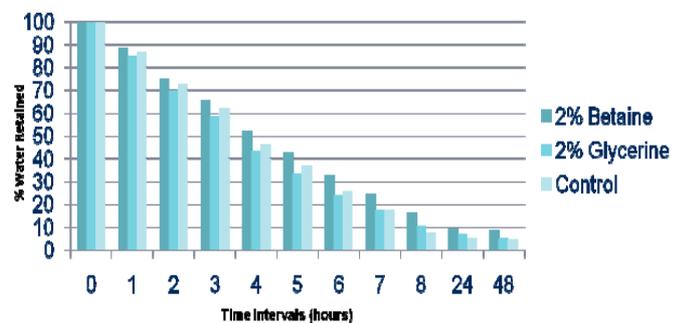
• **BETAFIN BP 20 in hair care**

DANISCO have already demonstrated that **BETAFIN BP20** is a good **hair conditioner**. Betaine is already found naturally in hair, and the conditioning effect of **BETAFIN BP20** has been always related to its capacity to penetrate into the hair structure and therefore, increase the hair's natural system to retain water inside the fibre. This new study proves **betaine's penetration to hair**. Hair samples from 10 people have been treated, during 6 weeks, with a shampoo containing 5% **BETAFIN BP20**. After that treatment period, the content of betaine in the hair was measured. The results show that **betaine can be delivered to hair from a shampoo and will stay in the hair**.



• **BETAFIN BP20 in wet wipes**

Binding water to impregnated wet wipes is one of the objectives of all wet wipes manufacturers. **DANISCO** have shown that this is possible using **BETAFIN BP20**. They compared 3 wet wipes emulsion solutions: placebo, placebo + 2% glycerine (positive control) and placebo + 2% **BETAFIN BP20**. Impregnated wipes have been left at room conditions during 48 h. Weight loss was measured (water evaporation) as the measure to test the water binding capacity of each tested emulsion. The emulsion containing 2% Betafin BP 20 showed statistically significant improvement in water retention capacity compared to the placebo and 2% Glycerine BP variants over 48 hours.



BETAFIN BP20 offers fantastic multifunctional benefits to

Wet Wipe formulae:

- excellent hydration
- texture enhancement
- and even anti-ageing activity

IBR-Snowflake®: In-Vivo efficacy tests



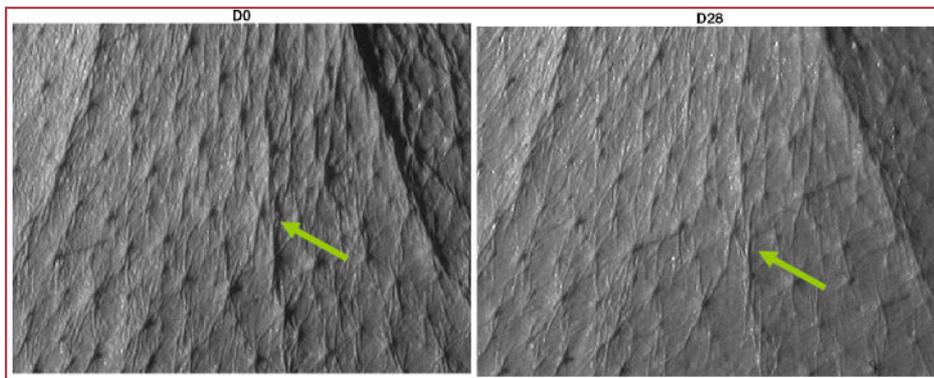
IBR-Snowflake® (Leucojum Aestivum Bulb Extract) was launched by IBR a few months ago. Among its anti-aging properties based on slowing down cell proliferation, **IBR-Snowflake®** has generated a lot of interest due to its ability to reduce wrinkles appearance functioning as Botox-substitute.

That anti-wrinkles effect was proven in-vitro: **IBR-Snowflake®** at 1.5% was effectively **blocking muscle contraction** in a co-culture of muscle-nerve. Now, IBR have announced the results of the in-vivo tests. The **clinical efficacy study** has evaluated the anti-wrinkles an anti-aging activity of **IBR-Snowflake®**. The test was done on 21 women aged 42-64 (median 60), comparing a cream with 2% active concentration with the corresponding placebo, during 28 days (randomized hemi-face application). The depth of the wrinkles was measured by Skin Image Analyser® and PRIMOS®.

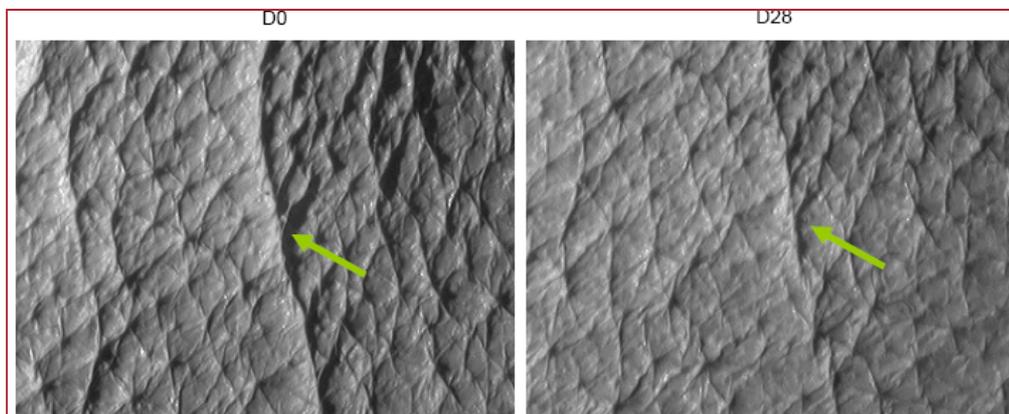
The results after 28 days are exciting:

- **Measurements:**

⇒ Significant **decrease in the number of micro relief furrows** (30% on average), observed in 86% of the subjects



⇒ **Decrease in the number of medium depth wrinkles** (15% on average), observed in 62% of the subjects



- **Panelists feedback:**

- ⇒ Global **improvement of the wrinkles**: 82%
- ⇒ Decrease in the **number and depth of wrinkles**: 33%
- ⇒ **Skin is smoother**: 52%
- ⇒ **Anti aging efficacy**: 58%

There is no doubt that **IBR-Snowflake®** brings a new dimension to anti-aging:

- **Slowdown Skin Aging**: reduction of cell proliferation through dormancy
- **Anti-Oxidant**: increase SOD production for natural defense
- **Anti-Wrinkles**: smoothing the skin and reducing wrinkles; affecting muscle cell contraction; preventing skin aging
- **Skin Whitening**: through dormancy of the melanocytes



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PRINCIPALS:

ARCH CHEMICALS

Cosmetic actives

BIOFLAVON

Bioflavonoid complex

BIOSPECTRUM

Cosmetic actives

CRODA

Emollients, Emulsifiers, Cosmetic actives, Fatty acids, Glycerine

IBR

Biotechnological actives

GIVAUDAN

Cosmetic actives

POWER COSMETICS

Cosmetic patches

SINERGA

Cosmetic actives

SINO LION

Cosmetic actives

SOLVAY SOLEXIS

Perfluoropolyethers

SONIAM

Ecocert extracts and oils

SUMMIT

Antiperspirant salts

TAGRA

Microencapsulated actives and pigments

ZENITECH

Cosmetic actives

QUARTERLY FORMULATION

BODY LOTION O/W (low cost)

Ref. **E-20/W-0089/03**

TRADE NAME (INCI)	FUNCTION	SUPPLIERS	% w/w
A			
Massocare Milk3 (Caprylic/capric Triglyceride, Triethylhexanoin, Glycerin, Polyperfluoroethoxymethoxy Difluoroethyl PEG Phosphate)	<i>o/w concentrated emulsion</i>	(1)	33.50
B			
Water up to (Aqua)	<i>solvent</i>		100.00
Betafin BP20 (Betaine)	<i>moisturising active</i>	(2)	2.00
Protelan PCA40 (Sodium PCA, Glycerin)	<i>moisturising active</i>	(3)	2.00
C			
Massocare TCK A1 (Sodium Polyacrylate, Paraffinum Liquidum, Trideceth-6)	<i>rheology modifier</i>	(1)	1.00

APPEARANCE : white light milk

SPECIFICATIONS :

Viscosity : 10.070 mPa·s (B, 12rpm)
23°C
pH : 5.92

PROCEDURE (cold process) :

1. Mix ingredients of phase B.
2. Add phase B to Massocare Milk3 whilst stirring.
3. Homogenise mixture for 2 minutes (Silverson: 3.000 rpm).
4. Add phase C to AB in the homogeniser.
5. Homogenise mixture for 2 minutes (Silverson: 3.000 rpm)
6. Stir for 20-30 minutes

KEY INGREDIENTS :

Massocare Milk3 - concentrated o/w emulsion for sprayables, milks and creamy-gels
Betafin BP20 - Ecocert-compliant moisturiser, organic osmolyte
Protelan PCA40 - physiological skin moisturizer

SUPPLIERS:

(1) Cíal. Química Massó - (2) Danisco - (3) Zschimmer & Schwarz