

DERMO ADDS HEALTH FOR YOUR LIFE



ADDES HEALTH TO YOUR LIFE

DERMO
GIDA

The logo consists of the word "DERMO" in a bold, dark green, sans-serif font. Below it, the word "GIDA" is written in a lighter green, sans-serif font. To the right of "GIDA", there is a large, dark green graphic element. It features a thick, horizontal swoosh that tapers to a point on the left and then curves upwards and to the right, ending in a large, dark green 'O' that contains a spiral pattern.



HAYATA SAĞLIK KATAR

*life is beautiful
when you are
happy*

HAPPY LIFE PET

Kab^{Os} Extra[®]
Magic Grains

Zar^{Os} Extra[®]
Magic Grains

DERMO
GIDA



DERMO
GIDA
OUR BRANDS



Kab^sOs[®] **Kab^sExtra[®]** **Kab^sOsExtra[®]** **Kab^sEx[®]** **B.a.L. L.K.[®]**

Zar^sOs[®] **Zar^sExtra[®]** **Zar^sOsExtra[®]** **ZK-Extra[®]** **ZK-Extra[®]**
Cilt Yarılgici Yüz Maskeci



HAPPY LIFE PET

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Our Documents

	T.C. BORNOVA KAYMAKAMLIĞI İLÇE TARIM VE ORMAN MÜDÜRLÜĞÜ İŞLETME KAYIT BELGESİ
Kayıt No	: TR-35-K-072722
İşletmecinin Adı-Soyadı / Tüzel Kişiliğin Adı	: Dermo Gıda İns. Kay. ve Kozm. Org. Doğ. İlaç Ham. Yem ve Yem Ürün. Ker. Pal. Ürt.Paz.San.Tic.Ltd.Şti
İşletmenin Ticaret Unvanı	: Dermo Gıda İns. Kay. ve Kozm. Org. Doğ. İlaç Ham. Yem ve Yem Ürün. Ker. Pal. Ürt.Paz.San.Tic.Ltd.Şti
Şirket, Kurum, Kuruluş Merkez Adresi	: Karacaoğlu Mah. 6167 Sokak No:40/A-A Bornova - İzmir / Türkiye
İşletmenin Adresi	: Karacaoğlu Mah. 6167 Sokak No:40/A-A Bornova - İzmir / Türkiye
İşletmenin Faaliyet Konusu	: Gıda Üretimi Yapan İşletmeler
Belgenin İlk Veriliş Tarihi	: 09/04/2019
Belgenin Değişiklik Tarihi	:
	İş bu belge, 5996 sayılı Kanunun 30 uncu maddesine dayanılarak düzenlenmiştir.  Ruhsan ÖZDEMİR ÇİFCİ İlçe Müdürü

FIRST QUALITY CERTIFICATION	
SERTİFİKA	KURULUŞUN ADI: DERMO GIDA İNSAN KAYNAKLARI VE KOZMETİK ORGANİK DOĞAL İLAÇ HAMMADDELERİ YEM VE YEM ÜRÜNLERİ KERESTE PALET ÜRETİM PAZARLAMA SANAYİ TİCARET LIMITED ŞİRKETİ KURULUŞUN ADRESİ: Karacaoğlu Mahallesi 6167 Sokak No:40AA Bornova / İzmir / Türkiye KURULUŞUN ÜRETİM YERİ ADRESİ: Karacaoğlu Mahallesi 6167 Sokak No:40AA Bornova / İzmir / Türkiye KURULUŞUN TESCİLLİ MARKASI: DERMO GIDA İLGİLİ STANDARD: TS OIC/SMIIC 1:2019 (ISO 22000:2018) BELGE KAPSAMI: YUMURTA KABUĞU, YUMURTA ZARFI, GIDA VE FONKSİYONEL GIDA MADDESİ ÜRETİMİ Helal Uygunluk Belgesi Bu belge kuruluşun TS OIC/SMIIC 1:2019 Helal Gıda Genel Kılavuzu Standardı ve ISO 22000:2018 Gıda Güvenliği Yönetim Sistemi Standardı şartlarını sağladığı, bu şartlara uyan bir yönetim sistemi kurduğu ve uyguladığı görülmüştür. İlk Veriliş Tarihi : 04.04.2022 Belge Tarihi : 04.04.2022 Belge Periyodu : 3 Yıl Bitiş Tarihi : 03.04.2023 Sertifika No : 09.22.10036.0098  First Quality Certification Sertifika Yürürlüğü Onay İstanbul, 2022.04.04   <small>FQC Üstünlük Arama Belgelendirme ve İlgili Hizmetleri Kurumu (Şirket) Çevre Mahallesi Tarım Çiftliği No:15/1A A 5129 25. Mahalle / İSTANBUL / TÜRKİYE T : +90 212 444 51 41 / +90 212 457 0310P / +90 212 457 00 00 Bu belge, kuruluşun FQC Tescilli Kuruluş ve Üretim Yeri Adresini doğrular. Bu belgeyi kullanırken lütfen FQC Kuruluş Adresini ve Üretim Yeri Adresini kullanınız. This document shall remain valid as long as the customer complies with the standard. Certificate validity may be extended on FQC website. www.fqcglobal.org info@fqcglobal.org</small>

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Our Documents

FIRST QUALITY CERTIFICATION



SERTİFİKA (CERTIFICATE)

Bu Sertifika (this Certificate),
**DERMO GIDA İNSAN KAYNAKLARI VE KOZMETİK
ORGANİK DOĞAL İLAÇ HAMMADDELERİ YEM VE YEM
ÜRÜNLERİ KERESTE PALET ÜRETİM PAZARLAMA SANAYİ
TİCARET LİMİTED ŞİRKETİ**
Karacaöğlen Mahallesi 6167 Sokak No:40AA Bornova / İzmir / Türkiye
Kuruluşunun (the organization),

**YUMURTA KABUĞU, YUMURTA ZARI, GIDA VE FONKSİYONEL GIDA MADDESİ
ÜRETİMİ**

EGG SHELL, EGG MEMBRANE, FOOD AND FUNCTIONAL FOOD PRODUCTION

kapsamında (in the scope of),

G M P
(İyi Üretim Uygulamaları)
(Good Manufacturing Practice)
şartlarına uygun bir sistem kurduğunu ve uyguladığını onaylamak üzere verilmişdir.
(to certify clauses is established and being implemented)

İlk Veriliş Tarihi/First Date of Issue	: 25.01.2024
Belge Tarihi/Date of Issue	: 25.01.2024
Belge Periyodu/Certificate Period	: 3 Yıl
Bitiş Tarihi/Reissue Due Date	: 24.01.2025
Sertifika No/Certificate No	: 08-24.10036.204934
Revizyon Tarihi/No/Revision Date/No	: -




First Quality Certification
Sistem Sertifikasyon Onayı
(System Certification Approval)
İstanbul, 2024.01.25

FQC Global Sertifikasyon A.Ş.
Çevre Mühürsüz Temsil Ltd.Şti No:12118 64320-25 Mithatpaşa / ÇEVREKİT / ÇEVREKİT T. +90 216 444 21 61 / +90 216 427 00 60 F. +90 216 432 00 60
Bu belge, müşteriye FQC'nin kurulumu ve işletimi şartlarına atfedilebilir şekilde verilmektedir. Sertifika geçerliliği, bu belgeyi FQC'nin elinde tutulduğu sürece geçerlidir.
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SERTİFİKA (CERTIFICATE)

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**DERMO GIDA İNSAN KAYNAKLARI VE KOZMETİK
ORGANİK DOĞAL İLAÇ HAMMADDELERİ YEM VE YEM
ÜRÜNLERİ KERESTE PALET ÜRETİM PAZARLAMA SANAYİ
TİCARET LİMİTED ŞİRKETİ**
Karacaöğlen Mahallesi 6167 Sokak No:40AA Bornova / İzmir / Türkiye
Kuruluşunun (the organization),

**YUMURTA KABUĞU, YUMURTA ZARI, GIDA VE FONKSİYONEL GIDA MADDESİ
ÜRETİMİ**

EGG SHELL, EGG MEMBRANE, FOOD AND FUNCTIONAL FOOD PRODUCTION

C / CI, CIV

kapsamında (in the scope of),

ISO 22000:2018
Gıda Güvenliği Yönetim Sistemi standartlarına şartlarına uygun bir yönetim sistemi kurduğunu ve uyguladığını onaylamak üzere verilmişdir.
(to certify that Food Safety Management System in accordance with standard's clauses is established and being implemented)

İlk Veriliş Tarihi/First Date of Issue	: 25.01.2024
Belge Tarihi/Date of Issue	: 25.01.2024
Belge Periyodu/Certificate Period	: 3 Yıl
Bitiş Tarihi/Reissue Due Date	: 24.01.2025
Sertifika No/Certificate No	: 22.24.10036.40190.I
Revizyon Tarihi/No/Revision Date/No	: -




First Quality Certification
Sistem Sertifikasyon Onayı
(System Certification Approval)

FQC, İtalya & Head Office
FQC First Quality Certification Ptd. Ltd.
SOS 37, Sector 12 Pinarbaşı - 194100, Konya, İtalya
T. +90 216 444 21 61 / +90 216 427 00 60 F. +90 216 432 00 60
www.fqcglobal.org info@fqcglobal.org

FQC, Turkey & Global Location
FQC Sistem Sertifikasyon A.Ş.
Çevre Mithatpaşa, Temsil Ltd.Şti No:12118 64320-25 Mithatpaşa / Çevreki / Çevreki T. +90 216 444 21 61 / +90 216 427 00 60 F. +90 216 432 00 60
www.fqcglobal.org info@fqcglobal.org

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FILK Freiburg Institute gGmbH
Mühlberg Ring 1-5
09599 Freiburg | Germany
Telefon +49(0)3731 306-0
Telefax +49(0)3731 306-330
post@filk.de
www.filk-freiburg.de

Test report	224319	10.01.2023
Customer	DERMO Gida Karacaoglan Mahallesi 6167 Sokak No. 40 / A-A Isikent / Bornova / Izmir Türkiye / Türkei	
Order	Protein Identification via LC-MS	
Date of order / delivery	25.11.2022	
Test sample / amount	Egg shell membrane	
Sampling	by customer, test pieces from material by FILK gGmbH	
Test methods	see test results, climate for conditioning and physical testing: 23 ± 2 °C, 50 ± 5 % relative humidity	

Test report No.: 224319

page 2 of 5

Protein Identification via LC-MS according FILK-AA-751.44 (2022-05)

For LC-MS analysis, the sample was enzymatically digested with trypsin. The resulting peptides were purified and separated on a reversed phase column using high performance liquid chromatography. The eluting peptides were analyzed on-line by tandem mass spectrometry using an ion trap instrument (QTRAP 4000, Sciex). Spectra were recorded by the Analyst program (Sciex) recording two product ion scans per full MS scan. The resulting peak lists were analysed as follows:

The software ProteinPilot (ABSciex) with the paragon algorithm was used applying the following parameters:

Software Version:	ProteinPilot™ Software 4.5
Revision Number:	1656
Paragon™ Algorithm:	4.5.0.0, 1654
Sample Type:	Identification
Cys. Alkylation:	None
Digestion:	Trypsin
Instrument:	4000 QTRAP ESI
Special Factors:	-
ID Focus:	Biological modifications
Database:	uniprot-rattus+rattus+cont
Search Effort:	Thorough
FDR Analysis:	Yes
Detected Protein Threshold [Unused	
ProtScore (Conf)] >:	3.00 (99.9%)
Competitor Error Margin (ProtScore):	2.00

The database *uniprot-gallus+gallus+domesticus+cont.fasta* contains all entries found in the uniprot database (23.09.2021) with the search term *Gallus gallus*. The database includes a contaminant database provided by Sciex (Swissprot and NCBI entries). Only proteins for which at least two peptides could be matched are regarded as identified.

Results:

For testing of the egg shell membrane, a double determination was carried out. Four proteins were identified:

- (1) the α_1 chain of type X collagen
- (2) a cellular glycoprotein containing the D-domain of the von Willebrand factor, which is active in mammalian cells in the context of blood clotting
- (3) the enzyme lysyl oxidase, which plays a role in the cross-linking of extracellular matrix proteins
- (4) the enzyme lysozyme, which participates in the hydrolysis of peptidoglycans

Test report No.: 224319

page 1 of 5

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Test report No.: 224319

page 3 of 5

The proteins (1) and (2) were those two with the highest number of peptides identified via LC-MS/MS measurement.

Peptides, which can be assigned to other proteins, were not detected.

In addition, bovine trypsin was found in the sample material. This enzyme was used during digestion of the egg shell membrane as part of sample preparation and, therefore, is to be regarded as a contamination.

Collagen type V concentration is too low in the tested egg shell membrane.

The results are summarised in table 1.

Explanations of the table captions:

N: Rank of protein
 Score Unused: Sum of the single peptide confidence scores (only spectra which have not been used for a higher ranking protein)
 Score Total: Total protein score
 % Cov (95): Part of the protein sequence that was covered by peptides having a confidence of higher 95%
 Accession: Accession number of NCBI (gi)
 Peptides (95%): Number of identified peptides with a confidence above 95%

Test report No.: 224319

page 5 of 5

FILK gGmbH

Ines Stachel

Dr. Ines Stachel
 Deputy Head of Test Laboratory

Test report No.: 224319

page 4 of 5

Table 1: Results for LC-MS/MS analysis using the database uniprot-gallusgallus+domesticus+cont.fasta

Egg shell membrane_1							
N	Unused	Total	% Cov (95)	Accession #	Name	Species	Peptides (95%)
1	8.04	8.04	7.6	tr ADA3Q2UC95 ADA3Q2UC95_CHECK	VWFD domain-containing protein OS=Galus gallus OX=9031 PE=4 SV=1	CHICK	9
Egg shell membrane_2							
N	Unused	Total	% Cov (95)	Accession #	Name	Species	Peptides (95%)
1	31.51	31.51	12.7	tr ADA3Q2UC95 ADA3Q2UC95_CHECK	VWFD domain-containing protein OS=Galus gallus OX=9031 PE=4 SV=1	CHICK	20
2	25.3	25.3	23.2	sp P08125 COA1_CHECK	Collagen alpha 1(X) chain OS=Galus gallus OX=9031 GN=COL10A1 PE=1 SV=4	CHICK	14
3	8.23	8.23	5	tr ABAGAMQL32 ABAGAMQL32_CHECK	Lysyl oxidase homolog OS=Galus gallus OX=9031 GN=LOXL2 PE=3 SV=1	CHICK	4
4	5.1	5.1	19.1	tr B8YK77 B8YK77_GALLA	Lysozyme C OS=Galus falyentii OX=9032 GN=LYZ PE=3 SV=1	GALLA	4
5	3.63	3.63	15.6	cont 000137	up1 P00760 Cotonic trypsin precursor (EC 3.4.21.4) (Beta-trypsin) [Fragment] [Bos taurus [contaminant]]	Bos taurus [contaminant]	3

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Akkreditiertes Prüflaboratorium



Via Übermittlung gütlich zu den in der
Verordnung aufgeführten Prüfverfahren



FILK Testlabor Institut gGmbH
Möhlau Ring 1-6
09059 Freiberg (Sachsen)
Telefon: +49(0)3731 386-0
Telefax: +49(0)3731 386-130
info@institut-freiberg.de
www.institut-freiberg.de

Test report 214653c 24.02.2022

This test report replaces test report 214653 dated 30.11.2021,
which loses its validity.

Customer: Dermio Gıda ve Kosmetik Doğal İlaç Ham.
Kocatepe Mah. 6187 Sok. No. 40 / A-4
Kartalpaşa Cad. No. 295 D 31
Bismova - İzmir
Türkiye

Order: Execution of several chemical tests

Date of order / delivery: 01.11.2021 / 02.11.2021

Test sample / amount: EI-Membran / about 500 g

Sampling: by customer, test pieces from material by FILK gGmbH

Test methods: see test results,
climate for conditioning and physical testing:
23 ± 2 °C, 50 ± 5 % relative humidity



The test results as well as any statements of conformity apply only to the samples tested in the FILK Test Laboratory. The test results are mean values, further statistical characteristics, values and test details not stated in the test report are deposited in the Test Laboratory. The test period is the time between sample receipt and creation of test report. In principle, only the freshly received test report is valid. Accredited test methods are indicated by [M]. Tests carried out by sub-contractors are indicated by [S/D]. Tests carried out by co-operation partners are indicated by [P]. The partial publication of the test report is only allowed with a permission of the FILK Testlabor Institut gGmbH. Compensation claims are limited to the price of tests carried out. The General Terms and Conditions of FILK Testlabor Institut gGmbH apply. They are available at www.institut-freiberg.de.

Test report No.: 214653c

page 1 of 2

Test report No.: 214632c

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Test results

Parameter	EI-Membran	limits
Volatile matter in % DIN EN ISO 4624 [M]	6,9	
Hydroxyproline content in % dry weight FILK-QMA-2005 [M] single values average value	0,948 / 0,956 1,0	
Collagen content in % dry weight Factor: 7-45 average value	7,1	12-18 %

*address was corrected

FILK gGmbH

Dr. Ute Morgenstern

Dr. Ute Morgenstern
Deputy Head of Test Laboratory

annex: Further chemical tests (3 pages)



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FILK Freiburg Institute gGmbH
Müllers Ring 1-5
76189 Freiburg i. Br. Germany
Telephone: +49(0)711 360-0
Telefax: +49(0)711 360-030
www.filk-freiburg.de

Report	Annex to test report 214633c This test report replaces Annex to test report 214633 dated 30.11.2021, which loses its validity.
Orderer	Dermo Gıda ve Kosmetik Doğal İlaç Ham.® Karacaöğlen Mah. 6167 Sok. No. 40 / A-A Kemalpasa Cad. No. 295 D-31 Bartın - İlimir Türkiye
Order	1. Determination of sulfated Glycosaminoglycan content 2. Determination of hyaluronic acid
Date of order / delivery	2021-11-01 / 2021-11-02
Test samples / amount	Egg membrane / about 500 g
Sample storage	room temperature
Sampling	by customer, test pieces from material by FILK gGmbH
Test methods	see test results, settings for climate conditioning and physical tests: 23 ± 2 °C, 50 ± 5 % relative humidity
Pages	3

Freiburg, 2022-02-23

Dr. Ines Stachel
Person in charge



* address was corrected

FILK Freiburg Institute gGmbH
Müllers Ring 1-5 | D-76189 Freiburg (Germany)



Annex to test report 214633c

Page 2

1. Determination of sulfated Glycosaminoglycan content (FILK-AA-751.89)

The commercial "Blyscan™" sulfated Glycosaminoglycan Assay" from Biorcolor Ltd. was used to determine the content of sulfated Glycosaminoglycans. Applying this assay, the following sulfated Glycosaminoglycans, either still attached to the protein core, or as free chains can be measured:

- chondroitin sulfate
- keratan sulfate
- dermatan sulfate
- heparan sulfate

For the test, 50 mg of the lyophilized sample were initially incubated with papain in order to release the Glycosaminoglycans.

Results

Table 1: Content of sulfated Glycosaminoglycans

Parameter	Egg membrane	Limits
Content of sulfated Glycosaminoglycans in % dry weight of the sample		Chondroitin sulfate
single values	< 0.001 / < 0.005	
mean value	< 0.005*	0.2 - 0.5 %

* 100 of the assay

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FILK Freiburg Institute gGmbH
Medliner Ring 1-5 | D-79098 Freiburg (Germany)

FILK Freiburg Institute

Annex to test report 214613c

Page 3

2. Determination of hyaluronic acid (FILK-AA-751.94)

The content of hyaluronic acid was determined by means of RP-HPLC based on the quantification of its disaccharide units. For the test, the sample material was enzymatically digested using hyaluronidase in order to release the disaccharides. A hyaluronic acid standard (Sigma Aldrich 53747) was treated together with the samples and used to calibrate the HPLC system.

Results

Table 2: Content of hyaluronic acid

Parameter	Egg membrane	Limits
Content of hyaluronic acid in % dry weight of the sample		
single values	0.83 / 0.97	
mean value	0.9 ± 0.1	0.5 - 3.0 %

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Medliner Ring 1-5
79098 Freiburg
Germany

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Eggshell Membrane

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	Mixture
Trade name	Eggshell Membrane
Product code	EIM01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : This product is an organic soil regulator.

1.3. Details of the supplier of the safety data sheet

Dermo Gıda ve Kosmetik Doğal İlaç Ham.
Karacaoglan Neighbourhood, 5167 Sok. No: 40 / A-A
Kamapaşa Street, No: 295 D.31
Bomrov
İzmir - Türkiye
T + 90 530 383 57 41

1.4. Emergency telephone number

National Poison Center
114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28849 on December 11, 2013.

Not classified

2.2. Label elements

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28849 on December 11, 2013.

No labeling applicable

2.3. Other hazards

Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier (CAS No)	%	Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28849 on December 11, 2013.
Protein	9015-54-7	65-70	Not Classified
Hyaluronic Acid	9004-61-9	0,9	Not Classified
Collagen (Collagen Alpha – 1(X))	97853-85-5	7,1	Not Classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: If you feel unwell, call a poison center or doctor / physician.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Eggshell Membrane

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end uses

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Color : Transparent, white.
Odor : Characteristic
Odor threshold : No data available

Eggshell Membrane

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

pH	: 5,8 – 7,2
Total humidity %	: 20
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Zinc (0.5g scale)	: 0,00353 mg
Phosphor (0.5g scale)	: 0,391295 mg
Calcium (0.5g scale)	: 45,2951 mg
Magnesium (0.5g scale)	: 0,917845 mg
Potassium (0.5g scale)	: 0,15869 mg
Sodium (0.5g scale)	: 0,44078 mg
Aluminum (0.5g scale)	: 0,10898 mg
Copper (0.5g scale)	: 0,00217 mg
Iron (0.5g scale)	: 0,018455 mg
Manganese (0.5g scale)	: 0,917845 mg
Nickel (0.5g scale)	: 0,0061 mg
Selenium (0.5g scale)	: 0,001865 mg

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Not available under recommended storage and handling conditions (see section 7)

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No hazardous decomposition products are expected under normal conditions of storage and use

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general
The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Aquatic acute
Not classified

Eggshell Membrane

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

Aquatic chronic
: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Eggshell Membrane	
Bioaccumulative potential	: No additional information available

12.4. Mobility in soil

Eggshell Membrane	
Mobility in soil	: No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods
: Eliminate the contents container in accordance with the separation instructions of the approved collector

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport
No data available
- Transport by sea
No data available
- Air transport
No data available
- Inland waterway transport
No data available
- Rail transport
No data available

14.7. Transport in bulk according to Annex 8 of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. National regulations

The product doesn't contain any substances that is controlled or prohibited for use according to the Regulation for Reduction of Ozone Depleting Substances published in the Official Journal numbered 27052 on November 12, 2006.

SECTION 16: Other information

Eggshell Membrane

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

Abbreviations and acronyms:

ADR	Accord Européen Relatif Au Transport International Des Marchandises Dangereuses Par Rout
CLP	Classification, Labelling and Packaging
IATA	International Air Transport Association
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet

Data sources : According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Safety Data Sheet Author/s:

Name : Berk SANDIKCIOĞLU
Certificate number : NBC / 01.06.03
Certificate valid until : 29/05/2023-29/05/2026
Contact information : info@besacevre.com / +90 232 441 27 08



SDS Turkey

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Berk SANDIKCIOĞLU
Genel Müdür

Eggshell

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : Eggshell
Product code : ES01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : This product is an organic soil regulator.

1.3. Details of the supplier of the safety data sheet

Derma Gıda ve Kosmetik Doğal İlaç Hem.
Karacaoglan Neighbourhood, 6167 Sok. No: 40 / A-A
Kernaşpaşa Street, No: 295 D.31
Bornova
İzmir - Türkiye
T+ 90 530 383 57 41

1.4. Emergency telephone number

National Poison Center
114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Not classified

2.2. Label elements

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

No labeling applicable

2.3. Other hazards

Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.
Protein		3 - 6	Not Classified
Calcium	7440-70-2	36 - 40	Not Classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : If you feel unwell, call a poison center or doctor / physician.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Eggshell

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Color : Transparent, white
Odor : Characteristic
Odor threshold : No data available
pH : 6.8 – 7.2
Total humidity % : 20
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available

Eggshell

Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Zinc (1.5g scale) : 0.00126 mg/kg
Phosphor (1.5g scale) : 1.261 mg/kg
Magnesium (1.5g scale) : 5.264 mg/kg
Potassium (1.5g scale) : 0.671 mg/kg
Sodium (0.5g scale) : 1.217 mg/kg

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Not available under recommended storage and handling conditions (see section 7)

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No hazardous decomposition products are expected under normal conditions of storage and use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
Specific target organ toxicity – repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Aquatic acute : Not classified

Aquatic chronic : Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Eggshell
Bioaccumulative potential : No additional information available

12.4. Mobility in soil

Eggshell
Mobility in soil : No additional information available

Eggshell Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Eliminate the contents container in accordance with the separation instructions of the approved collector

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				
14.6. Special precautions for user				
- Overland transport				
No data available				
- Transport by sea				
No data available				
- Air transport				
No data available				
- Inland waterway transport				
No data available				
- Rail transport				
No data available				
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
Not applicable				

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. National regulations

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation for Reduction of Ozone Depleting Substances published in the Official Journal numbered 27052 on November 12, 2006.

SECTION 16: Other information

Abbreviations and acronyms:

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IATA	International Air Transport Association
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SOS	Safety Data Sheet

Data sources : Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Eggshell Safety Data Sheet

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Date of issue: 22/02/2024 Version: 1.0

Safety Data Sheet Author's:

Name : Berk SANDIKCIOĞLU
Certificate number : NBC / 01.06.03
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Contact information : info@besacevre.com / +90 232 441 27 08



SOS Turkey

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Berk SANDIKCIOĞLU
C. Mühür
[Signature]

Operation;

There are numerous topical products that claim to eliminate wrinkles or otherwise restore your youthful appearance. The truth is that only some of these topical products have a certain level of benefit, while others are high-priced emulsions with very little efficacy. In this study, it will focus on single-component, water-soluble eggshell membrane with robust clinical trials demonstrating its efficacy as an anti-wrinkle agent. The eggshell membrane is the thin membrane just below the shell that you sometimes have difficulty peeling off when peeling a solid egg. The water-soluble eggshell membrane is a family of glycosaminoglycans containing collagen and elastin proteins, chondroitin, glucosamine, and hyaluronic acid, and is also a unique water-soluble component rich in desmosin and isodesmosin components. Each of these components is known to independently support healthy skin and is unique to the eggshell membrane. In addition, the eggshell membrane has been shown to increase cellular activity and collagen production, as well as prevent skin aging and reduce damage caused by UV light and inflammation.

Preclinical Studies

An in vitro study has been conducted to examine the effects of eggshell membranes for 1 cosmetic use on anti-inflammatory, anti-wrinkle, anti-microbial activity, and moisture protection. Inflammatory agents (lipopolysaccharide [LPS] and IFN- γ) were used in a cell line to cause inflammation. The results showed that the eggshell membrane was effective in preventing the induction of cell inflammation, and also had an extraordinary effect in suppressing skin inflammation. It has also shown the moisture protection effects of the skin. It was concluded that the eggshell membrane has anti-inflammatory, anti-collagenase, and elastase activities (enzymes that break down these two important skin proteins) and can therefore be used as a cosmetic agent to protect the skin.

EGG SHELL MEMBRANE LITERATURE STUDY

Some Functions of Soluble Eggshell Membrane;

- High antioxidant activity, even more than green tea, a universally known antioxidant.
 - The anti-inflammatory effect reduces the gene expression of inflammatory proteins in pathological cells by lowering the blood levels of the most typical inflammatory markers such as IL-1, TNF alpha, and NOa.
 - Increased cellular activation, fibroblast, chondrocytes, and osteoblast activity, production of new collagen and hyaluronic acid skin, muscle, tendons, and joints, and improvement of further bone information.⁵
 - Healing and regeneration activity in both superficial skin lesions and internal tissue injuries, which means shorter recovery times from tendon and muscle injuries.
 - Proteolytic activity reduction inhibits the action of proteins that destroy collagen and elastin, among others.
 - Extracellular matrix synthesis increases the production of new collagen and hyaluronic acid.⁹
- All these functions can be easily explained by the different proteins detected by a comprehensive proteomic study on the eggshell membrane, and can easily explain all the benefits of the eggshell membrane observed in more than 20 clinical trials to date that have been developed using the eggshell. Eggshell supplements in different areas, such as:
- Reduction¹ in joint pain in just five days. ²
- Arthritis decreases.
 - Cartilage protection.
 - Tendon elasticity improvement.
 - Muscle recovery shortening.
 - Athlete performance improvement
 - Improving bone health
 - Skin anti-aging effect and wrinkle reduction.
 - General development of hair and nails.
 - Effect against hair loss.
 - Skin anti pigmentation effect.
 - Improving skin elasticity.
 - Improving skin health.
 - Skin trans epidermal water loss reduction.
 - Sun damage skin recovery.

ADDES HEALTH TO YOUR LIFE

In a follow-up study⁴, the effect of the eggshell membrane on protection against wrinkles, UV, and moisture for cosmetic use was studied in hairless mice exposed to UVB to cause wrinkles for seven weeks. The treatment group was then given an egg shell membrane preparation for five weeks and tested for skin thickness, the minimum dose of erythema (i.e. the amount of UV-B needed to trigger the redness), and moisture content. The results were that the eggshell membrane was effective in inhibiting the stimulation of collagenase and also showed exceptional effects in suppressing skin aging. The results showed that the eggshell membrane was effective in preventing the induction of cell inflammation, and also had an extraordinary effect in suppressing skin inflammation. Furthermore, the skin damage caused by UV-B radiation of the treatment group mice was greatly mitigated by the eggshell membrane compared to that of the treatment group mice. The researchers concluded that the eggshell membrane helps to alleviate wrinkles and collagen damage caused by UV-B radiation and can be used as a functional cosmetic material.

3Additional preclinical research has found that the eggshell membrane is effective in promoting wound healing in mice⁵ and that its naturally occurring components have anti-inflammatory properties that demonstrate the effectiveness of the eggshell membrane in treating chronic inflammatory wounds.

Two human clinical studies have been conducted on water-soluble eggshell membranes, showing them to be effective in reducing the depth of wrinkles and improving other skin parameters.

First Clinical Trial

An open-label pilot study⁷ was conducted to evaluate the efficacy of a 10 percent water-soluble eggshell membrane (BiovaDerm, Biova) in a topical skin cream in reducing wrinkles associated with aged skin and its effect on sun-damaged skin. Twenty-three subjects were enrolled and evaluated in three groups. Group 1 was instructed to administer the study product for one week; Group 2 was instructed to administer the product for two weeks; and Group 3 was instructed to administer the product for four weeks. Subject evaluations were made at the first visit for Group 1 and one week later, while evaluations were made for the remaining groups at the first visit and every two weeks. Additionally, subject assessments included retrieving “rebound” data for four weeks after the product application ended.

The results showed that daily administration of the water-soluble eggshell membrane showed:

- 28 percent reduction in deep wrinkles within four weeks in Group 3⁴
- 19 percent reduction in deep wrinkles within two weeks in Group 2⁵
- 30 percent reduction in deep wrinkles within one week in Group 1⁶
- Efficacy of the treatment continued two weeks after the final product administration.

The positive effect was long-lasting and continued after the use of the cream was discontinued. One to two weeks after treatment discontinuation, the skin began to return to its pre-treatment condition. One to two weeks after treatment discontinuation, the skin began to return to its pre-treatment condition. Antibodies can be detected at the earliest one to two weeks after infection. It was observed that the measurable effect of the cream in reducing wrinkles, improving skin smoothness and gloss, and reducing acne was still noticeable after four weeks. Subject comments confirmed these clinical observations in detail. I will mention the benefits of this fascinating material for joint health. For the health of all of us, we must act much more consciously in this new period.

ADDES HEALTH TO YOUR LIFE

Now why does that matter for human health? As in the previous article, some background information about the eggshell membrane was shared in this article; the 1 2

The Eggshell Membrane

Eggshell Membrane is the thin membrane just below the shell that you sometimes struggle to remove when peeling a solid egg. The eggshell membrane is the thin membrane just below the shell that you sometimes have difficulty peeling off when peeling a solid egg. WSEM is a family of glycosaminoglycans containing collagen and elastin proteins, chondroitin, glucosamine, and hyaluronic acid, and is also a unique water-soluble ingredient rich in desmosine and isodesmosin components. Each of these components is unique to the eggshell membrane. Eggshell membrane to each of these components, In addition, the eggshell membrane has been shown to increase cellular activity and collagen production. In some studies, RJ has been shown to increase collagen production. Each of these components is known to independently support healthy skin and is unique to the eggshell membrane. In addition, the eggshell membrane has been shown to increase cellular activity and collagen production, as well as prevent skin aging and reduce damage caused by UV light and inflammation. The chicken egg shell membrane has received technological attention especially in the search for biological and biodegradable matrices developed for regeneration in wounds, nerves and joints/cartilage. Proteoglycans (consisting of glycosaminoglycans) in the eggshell membrane have been successful in treating wounds and burns that do not heal due to their biocompatibility, biodegradability, and similarity to macromolecules found in the human body. As a nutritional supplement, the eggshell membrane has been found to be a successful treatment. Alternatively, you can also give them in capsule form as a food supplement.

WSEM Study 1

5BiovaFlex, a WSEM component (450 mg/day) produced by Biova, LLC, was evaluated in a six-week, open-label pilot study for safety and efficacy in the treatment of musculoskeletal pain and flexibility in 42 subjects with a history of arthritic-type joint pain or connective tissue disorder with reduced range of motion. For study purposes, the knee joint was identified and monitored over the six-week period of the study. Subjects were clinically evaluated at specified intervals for both efficacy (pain level and total flexion) and overall health assessments. Subjects were clinically evaluated at specified intervals for both efficacy (pain level and total flexion) and overall health assessments. The cognitive component takes place during weeks five and six. Daily online monitoring and measurement of the subject's joint pain were recorded through the Western Ontario and McMaster University (WOMAC) Abbreviated Index. The results were that pain symptoms decreased by 8.25 percent from baseline within seven days and by 23.77 percent from baseline within 10 days. In just seven days, improved knee functionality was 9.191 percent and in 14 days it was 10.14 percent compared to baseline. The mean WOMAC value in all subjects decreased from 4.61 (baseline) to 3.69 (end of study). A reduction of 0.97 percent or 20.78 percent. (P<0.00016). This reduction in absolute pain is important in that pain relief exceeds the increased pain normally associated with increases in flexion (the act of bending a limb or joint). In just seven days, improved knee functionality was 9.191 percent and in 14 days it was 10.14 percent compared to baseline. Relative knee functionality increased by 37.8 percent over six weeks. The safety profile was remarkable without reporting any side effects. No side effects have been reported. No adverse effects to mother or infants were reported. This study concludes that WSEM (BiovaFlex, Biova) is an effective and safe alternative treatment for knee-related musculoskeletal pain and stiffness.

WSEM Study 2

A randomized, double-blind, placebo-controlled crossover study involving two four-week placebo periods and 450 mg/day of WSEM (BiovaFlex, Biova) consumption separated by a four-week washout period⁸, a healthy population of 25 study participants experiencing chronic pain. Participants were randomized to either “placebo first” or “WSEM first” in the cross trial, and 22 participants completed the study requirements. The range of motion (ROM) was evaluated using a digital inclinometer for joints carrying vertical weight from the neck to the knees and shoulders. Pain at rest and physically active was scored using visual analog scales (i.e., a psychometric response scale that can be used in surveys) for the same anatomical areas. Physical functionality was monitored using questionnaires containing visual analog scales (VAS). Alcohol craving and anxiety experienced during VR exposure were explored with visual analogue scales (VAS). Visual analog scales (VAS) or numerical rating scales (NRS) have been approved in many studies and remain the gold standard in pain assessment (7). The results showed that WSEM consumption was associated with improved ROM for the neck, spine, hip, and knees and that ROM for the neck and right knee improved significantly during WSEM consumption compared to placebo. The results showed that WSEM consumption was associated with improved ROM for the neck, spine, hip, and knees and that ROM for the neck and right knee improved significantly during WSEM consumption compared to placebo. Physical activity levels and physical energy levels were significantly higher after WSEM than after placebo consumption. Many aspects of physical functioning have evolved as part of everyday life. 2- Awareness of difference as a part of daily life, acquire language as children do – as part of everyday life. Subgroup analysis showed rapid improvement in lower back pain after five days of WSEM consumption compared to placebo consumption in subjects participating in the study during the winter season. Daily consumption of 450 mg of WSEM was associated with improved joint function, comfort during daily activities, and increased physical activity.

Additional Research

A 4recently completed 12-week, randomized, double-blind, placebo-controlled clinical trial evaluated the effects of daily consumption of 450 mg of WSEM (BiovaFlex, Biova) in 88 subjects. The results showed significantly improved performance within five days and 12 weeks in the entire treatment cohort in individuals at greatest physical risk. The product was found safe. Is the product safe?

Solution

1Human studies have shown that the water-soluble eggshell membrane (BiovaFlex, Biova) is safe and effective in treating arthritic-type joint pain or connective tissue disorder. This includes a 23.77 percent overall reduction in pain within 10 days, improved range of motion for the neck, spine, hips and knees, a rapid improvement in joint and lower back pain after five days, and also a significant improvement in physical performance within five days. It went on for 12 weeks. These benefits were achieved with a daily dose of 450 mg.

IS IT NECESSARY TO TAKE SUPPLEMENTS?



- The supplement is not a supplement medicine.
- To prevent deficiencies due to unbalanced and irregular nutrition.
- Due to the advancing age, the body cannot produce many essential substances (collagen, some amino acids ...)



In case of an increase in diseases seen in employees, some negativities such as absenteeism, decrease in product quality, high material wastage, low productivity and increase in turnover may occur.

ADDES HEALTH TO YOUR LIFE

WHY USE EGGSHELL AND EGGSHELL MEMBRANE?



- Due to its eggshell structure, it has a composition rich in protein and minerals
- Eggshell membrane contains collagen, glucosamine, hyaluronic acid, MSM, chondroitin sulphate and many minerals such as calcium, calcium carbonate, magnesium, zinc, potassium, sodium, etc.

EGGSHELL MEMBRANE IN LITERATURE

The 16th Congress of Rheumatology in London, which held Europe's largest EULAR 2016, the eight university hospitals in Turkey, Istanbul University Faculty of Medicine, Department of Physical Medicine and Rehabilitation Prof. Dr. The scientific research conducted in 186 patients under the coordination of Nurten Eskiurt was accepted. Double-blind, placebo-controlled, evidence-based scientific research has proven that natural eggshell membrane helps relieve pain and stiffness in the treatment of arthritis.

- (<http://www.haberturk.com/saglik/haber/1254848-yumurta-kabugu-zari-kireclenme-tedavisine-yardimci-oluyor>)

ADDES HEALTH TO YOUR LIFE

BENEFITS OF EGGSHELL FOR EVERYDAY USE



- The presence of collagen, hyaluronic acid and glycosamine in its structure and the cell regenerating effect of all these substances have positive effects on the skin.
 - As the presence of collagen accelerates the healing of superficial cuts and superficial traumas in the body, it is recommended to be used as an additional supplement for employees suffering from joint pain, waist-neck pain and muscle spasms with the presence of calcium and magnesium.
- Use of Eggshell ;
- It helps to meet the daily calcium and magnesium needs.
 - It is recommended to be used in the treatment of diseases caused by calcium and magnesium deficiencies.
 - In addition, zinc and phosphorus in it increase the benefit of calcium and magnesium.

ADDES HEALTH TO YOUR LIFE

ADDITIONAL FOOD SUPPLEMENT BENEFITS



In today's conditions, in cases where nutrition is getting worse, we turn from regular eating habits to Fast Food habits and the foods we consume do not meet the energy needs of our body, it should be taken naturally to meet our deficient vitamins and mineral needs.

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Zar-os EGGSHELL MEMBRANE POWDER



Our eggshell membrane powder product is made ready without changing the components (collagen, glucosamine, hyaluronic acid, chondroitin, MSM, protein, calcium carbonate, magnesium, sodium, potassium, phosphorus, iron, zinc).

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Kab-os EGGSHELL POWDER



Eggshell powder is offered as a supplementary food with rich mineral values such as calcium, calcium carbonate, magnesium, magnesium carbonate, phosphorus, sodium, potassium iron, zinc and protein, organic substances.

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EGGSHELL COMPONENTS

COLLAGEN



- Collagen is a fibrous protein that supports body soft tissues.
- It gives strength and flexibility to tissues (bones, cartilages, muscles, tendons).
- It determines the shape of the organ in which it is located.
- Collagen production decreases in our aging body.
- These breaks, sagging skin, joint pain, joint movement limitations, easy fractures in bones, weakness.

ADDES HEALTH TO YOUR LIFE

GLUCOSAMINE



- It is mostly found in tendon (joint ligaments) structure.
- Used for joint pain and arthritis.
- Used for joint pains after sports.

HYALURONIC ACID



- Hyaluronic acid is found in every tissue of the body and is responsible for performing certain vital activities.
- Treatment of joint pain,
- Reducing skin aging
- Used to strengthen the immune system

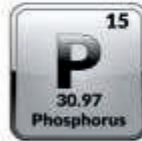
ADDES HEALTH TO YOUR LIFE

MAGNESIUM



- Magnesium is one of the most essential minerals in the body.
- It is stored in the bones. Adults have 28-24 mg.
- It has an important role in metabolic events and energy reactions.
- There is a significant amount in the heart and brain.
- It reduces excessive sensitivity in the nervous system. It is known as an anti-stress mineral.
- It takes part in the transformation of blood sugar into energy.

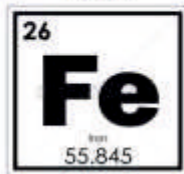
PHOSPHORUS



- Phosphorus is an essential mineral for Life.
- It is the most abundant mineral in the body after calcium.
- It is mostly found in bones and teeth.
- It takes part in the formation of ATP that provides energy.
- In tissue repair
- It is a factor in growth.

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IRON



- Iron is an essential mineral for the body.
- It is involved in the structure of blood.
- It is in the structure of the protein that carries oxygen.
- It exists in the immune system.
- Deficiency is known as anemia (anemia).

ZINC



- Zinc It is 2-3 g in total in the body.
- But the body is active in the work of 300 enzymes.
- In blood cells In the system There is skin, kidney, deep, eye, pancreas.
- It is found in saliva. It is found in the sperm structure

CONDROIDIN



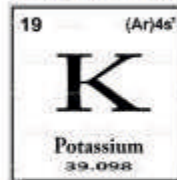
- Condroidin is a chemical substance found in the joint cartilages of the body.
- It is used to reduce osteoarthritis pain.
- In addition to these, although it is not enough, it is thought to be beneficial for heart disease, osteoporosis (osteoporosis), high cholesterol.

CALCIUM



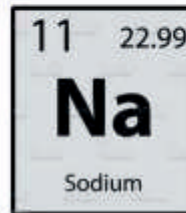
- Calcium is very important due to its duties in terms of bone formation and dental health.
- 99% of the calcium in the human body is found in bones and teeth.
- Calcium, muscle growth and muscle tension, energy production, blood clotting, nerve conduction and
- It has important functions in the regular work of the heart.

POTASSIUM



- Potassium is a vital mineral.
- It is used in metabolic events.
- It is used in the regulation of cell and organ functions.
- Potassium decreases in the body in diarrhea and dehydration

SODIUM



- Sodium is one of the vital minerals.
- It is imprecise in liquid electrolyte balancing For heart health, Nervous system and It is important for glucose absorption.
- It takes part in the contraction functions of the muscles.
- It has a calming effect.

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**MINERALS TAKEN USING ONE SCALE (1 Teaspoon)
EGGSHELL MEMBRANE POWDER**



MINERAL	WITH 0,5gr SCALE	NUTRITION REFERENCES VALUE
ALUMINIUM	0,10898 mg	--
COPPER	0,00217mg	2000ug
ZINC	0,00353mg	15mg
IRON	0,018455mg	17mg
PHOSPHORUS	0,391295mg	700mg
CALCIUM	49,2951mg	1500mg
CHROMIUM	0,000705mg	--
MAGNESSIUM	0,917845mg	250mg
Mangan	0,00047mg	2mg
Nikel	0,00061mg	--
POTASSIUM	0,15869mg	1500mg
SELENIUM	0,001865mg	200ug
SODIUM	0,44078mg	--

**MINERALS TAKEN USING ONE SCALE (1 Teaspoon)
EGGSHELL POWDER**



MINERALS	WITH 0,5gr SCALE	NUTRITION REFERENCES VALUE
ZINC	0,00126mg/kg	15mg
PHOSPHORUS	1,261mg/kg	700mg
CALCIUM	357,97mg/kg	1500mg
MAGNESSIUM	5,264mg/kg	250mg
POTASSIUM	0,671mg/kg	1500mg
SODIUM	1,217mg/kg	--

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THE BENEFITS OF USING CALCIUM IN FEED

- There are many different types of calcium supplements added to feeds in the market.
- The point to be considered is the calcium 1/2 phosphorus ratio in the ration. Their participation in the ration at a rate of is of great importance in terms of body functions and use.
- When calcium is deficient in the body, slowing of growth and a decrease in milk yield
- Bone and teeth deterioration, therefore posture disorders
- Immediately after calving in cows, the need for calcium increases, and calcium that is not adequately absorbed causes hypocalcemia and causes milk fever.
- Blood clotting decreases and bleeding occurs more frequently.
- In poultry, in addition to the decrease in egg quality, there is a decrease in life levels

THE BENEFITS OF CALCIUM

- Calcium is the most abundant mineral in the body and constitutes 1-2% of body weight. 99% of the calcium in the body is found in bones and teeth.
- For these reasons, calcium is one of the most used minerals in feed rations.
- Calcium is the basic building block in the formation of skeleton and teeth.
- Plays a role in milk production and egg shell formation in poultry
- It is involved in blood coagulation, glycogen metabolism, stimulation of nerves and secretion of certain hormones.
- According to veterinarian Karen Shaw Becker, a number of nutritional supplements can improve your pet's overall health even better. While chondroitin sulfate and glucosamine supplementation can be beneficial for active pets (for example, dogs who regularly go on long runs with their owners), it is underlined that it improves the health of pets' joints, muscles and bones.

(<https://www.manushealth.com.br/vo01-hayvancilar-icm-beasin-takvilyes-nasli-climal520/>)

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Considering the studies that have been done, it is seen that the use of egg membrane and shell in animal feed rations and as supplementary food will be beneficial.



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*life is beautiful
when you are
happy*

HAPPY LIFE PET

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dermogida@dermogida.com
info@dermogida.com
muhassebe@dermogida.com
oktaydag@dermogida.com

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+90 (532) 131 11 17 +90 (532) 131 11 20