

# MARIFIT

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## Strokovni vidik

**doc.dr. Aleš Mlinarič, mag. farm.**  
**Vodja Službe za razvoj in raziskave**

## Strokovne dileme

- ❖ Kakovosti prehranskih dopolnil v smislu sebnosti sestavin nihče ne preverja
- ❖ Za kakovost je odgovoren proizvajalec, soodgovorni pa vsi člani verige, ki vodi do uporabnika oziroma potrošnika
- ❖ Soodgovornost lekarn!
- ❖ Paralela z zdravili – JAZMP (država) preverja kakovost, varnost in učinkovitost

## Strokovne dileme

- ❖ Prijava na Republiški zdravstveni inšpektorat
  - preverjanje predvsem z vidika vsebnosti težkih kovin, pesticidov, patogenih mikroorganizmov
- ❖ Preverjanje vsebnosti sestavin je zapleteno, vendar izvedljivo
- ❖ Pomanjkanje akreditiranih laboratorijev (primer izdelkov z luteinom in Kemijskega inštituta)

## Zavezanost kakovosti – politika Lekarn Maribor

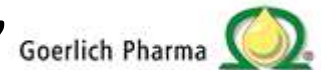
- ❖ Že skoraj 50 let skrbimo za učinkovite, varne in kakovostne izdelke in storitve
- ❖ Široka ponudba lastnih izdelkov – Galenski laboratorij – tudi lastni Kontrolno analizni laboratorij in hčerinska družba Marifarm
- ❖ Posebna pozornost pri izbiri novih partnerjev

## Naši partnerji

❖ SWISSCAPS AG, Kirchberg, Švica



❖ Goerlich Pharma International, Edling,  
Nemčija



❖ EPAX AS, Aalesund, Norveška

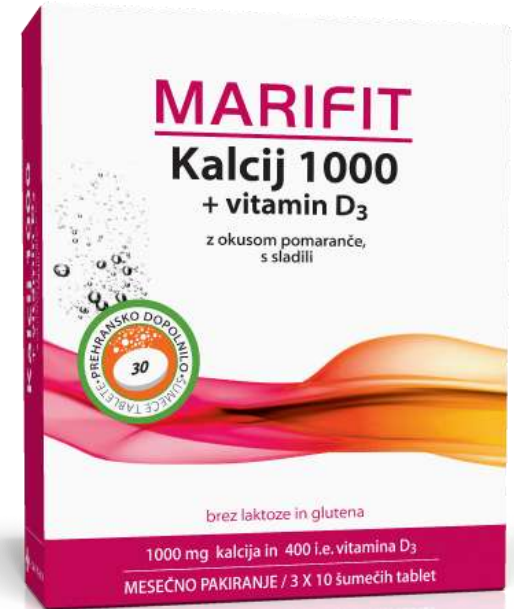


❖ Immuno-Lac GmbH, Wasserburg,  
Nemčija



## Dodatno preverjanje kakovosti

- ❖ izbrali smo nekaj primernih laboratorijev v Evropski skupnosti
- ❖ Analiza vsebnosti v vsaki izdelani seriji
- ❖ stroški analiz niso visoki
- ❖ dodatno zagotovilo k zagotavljanju kakovosti poleg izbire zanesljivega proizvajalca



šumeče tablete **MARIFIT**

**46600      MAGNEZIJ 300 + VIT. C      Lotto: 00605**

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Cont. Mg

R:     278.2mg (92.7% dd)              RSD%: 0.26

Cont Vit. C

R:     124.5mg (103.7% dd)              RSD%: 0.42

**43800      KALCIJ 500                      Lotto: 00607**

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Cont. Ca

R:     470.7mg (94.1% dd)              RSD%: 0.28

**46500      KALCIJ 1000 + d3              Lotto: 00602**

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Cont Ca

R:     948.9mg (94.9% dd)              RSD%: 0.56

Cont. Vit D3

R: 0.0097 mg ( 97.0%)

**54701      MULTIVIT                      Lotto: 00600**

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Cont Vit C

R:     61.3mg (102.2% dd)              RSD%: 0.99

Cont Vit B6

R:     2.20mg (110.0% dd)              RSD%: 0.64

Cont Vit E Acetato

R:     14.56mg (97.7% dd)              RSD%: 0.53

Cont. Vit B12

R:     0.00098 mg ( 98.0%)

21.04.10  
K

# MARIFIT Koencim Q10



Eurofins - DILU GmbH · Neuländer Kamp 1 · D-21079 Hamburg  
 Goerlich Pharma International GmbH  
 Am Gewerbering 4/6  
 83533 Edling

**Sachbearbeiter** Frau T. Decker  
**Kundenbetreuer** Frau T. Decker

 Prüfberichtsdatum 01.03.2010  
 Seite 1/1

**Prüfbericht:** AR-10-IQ-000323-01

**Proben - Nr.** 705-2010-00102918

<b>Betrifft</b>	Q10 Forte Kapseln GPI Art.: 50-000219
<b>Probennummer Kunde</b>	GPI Ch.: 986-001
<b>Auftragsnummer Kunde</b>	03-10
<b>Anzahl Probenbehälter</b>	1
<b>Bruttogewicht /-volumen</b>	114,2 g
<b>Eingangstemperatur</b>	Raumtemperatur
<b>Auftraggeber</b>	Goerlich Pharma International GmbH
<b>Einsender</b>	Goerlich Pharma International GmbH
<b>Überbringer</b>	Post
<b>Eingang am</b>	15.02.2010
<b>Verpackung</b>	Kunststoffbeutel
<b>Beginn/Ende der Untersuchungen</b>	15.02.2010 / 01.03.2010

## PRÜFERGEBNIS

### Physikalisch-chemische Untersuchung

<b>DJ026</b>	<b>Coenzyme Q10 (#)</b>		
Methode: Int. J. Vit. Research no. 56, 1986 (modified), HPLC-UV			
Im Unterauftrag durchgeführt durch Partnerlabor Eurofins Steins Laboratorium Vejen			
	Coenzyme Q10 (Ubichinon)	51,4	mg/Kapsel(n)
<b>DJ514</b>	<b>Kapselinhalt (#)</b>		
Methode: gravimetrisch			
Im Unterauftrag durchgeführt durch Partnerlabor Eurofins Steins Laboratorium Vejen			
	Kapselinhalt	551	mg/Kapsel(n)

# = Nicht akkreditiert

Unterschrift

 Dr. M. Brandmeier  
 (Geschäftsführer)

 F. Kareth  
 (Prokurist)

# MARIFIT Omegavit





Contact:

Gunilla Traberg

EPAX AS

+ 47 7013 5960

[gunilla.traberg@epax.com](mailto:gunilla.traberg@epax.com)

## EPAX' OMEGA-3 CONCENTRATES WELL BELOW STRICTEST INTERNATIONAL PURITY STANDARDS FOR ENVIRONMENTAL POLLUTANTS

Aalesund, Norway (March 04, 2010) - All EPAX products undergo a unique two-step proprietary purification process that enables us to set our product specifications on pollutants lower than required by the authorities. In addition, EPAX' vertically integrated supply chain enables direct control of raw material selection, handling and processing.

We guarantee that our marine-derived, health condition-specific EPA/DHA Omega-3 concentrates meet all known purity standards for environmental pollutants and that the EPAX Omega-3 concentrates are in compliance with relevant EU Legislations, EU Pharmacopeia and GOED Voluntary Monograph. At EPAX our aim is to stay one step ahead of regulatory measures. As a result, we have a long history of being the first to set new purity standards in the industry.

Regarding PCBs, EPAX has also set up its own maximum limits that are 9 times lower than requested by GOED and Proposition 65. The actual average number is 90 times lower which is on the threshold of the detection limits. PCB is not a single compound but consists of more than 200 isomers. Usually the 7 most toxic isomers are analysed and the maximum values based on their content. EPAX is also analysing the total amount of the isomers which gives higher value but is still very low. Below you will find the average values of PCBs for EPAX products.

PCBs	7 Isomers of PCBs	Total PCBs
EPAX Product Average Value	0,0010mg/kg (1,0 ng/g)	0,0019mg/kg (1,9 ng/g)
EPAX Maximum Limits	0,01mg/kg (10,0 ng/g)	
Goed Voluntary Monograph Maximum Limits	0,09mg/kg (90,0 ng/g)	

For complete maximum specifications limit overview for environmental pollutants, please contact EPAX AS.



# mylnefield

## LIPID ANALYSIS

Email: C.Traynor@mylnefield.com Web: www.lipid.co.uk  
 Telephone: +44 (0)1382 562731 Fax: +44 (0)1382 569516

● ● ● Mylnefield Research Services, Errol Road, Invergowrie, Dundee DD2 5DA, UK ● ● ●

Designation of sample - EPAX 6000 EE Capsules  
 Article No.: 50-000217  
 Charge No.: 985-001

Submitted by - Goerlich Pharma International

Our number - MRSLU/2010/192

Report Issue number - 2

### Fatty acid profile

		A%	mgEE/g Oil
14:0	myristic	0.3	3.1
16:0	palmitic	2.9	27.4
16:1	hexadecenoic	1.2	11.7
16:2	hexadecadienoic	0.2	1.9
17:0	heptadecanoic	0.2	1.6
16:3	hexadecatrienoic	0.2	2.1
16:4	hexadecatetraenoic	0.4	3.4
18:0	stearic	3.3	30.8
18:1(n-9)	oleic	6.6	60.3
18:1(n-7)	cis-vaccenic	2.5	22.9
18:2	linoleic	0.7	6.8
18:3	γ-linolenic	0.2	1.8
18:3	α-linolenic	0.5	4.3
18:4	octadecatetraenoic	1.8	16.5
20:0	icosanoic	0.5	4.4
20:1	icosenoic	2.2	20.2
20:2(n-6)	icosadienoic	0.3	3.0
20:3(n-6)	icosatrienoic	0.4	3.8
20:4(n-6)	arachidonic	1.9	16.8
20:3(n-3)	icosatrienoic	0.2	1.5
20:4(n-3)	icosatetraenoic	1.4	12.8
20:5(n-3)	icosapentaenoic	33.5	295.0
22:0	cetoleic	0.3	2.3
22:1(n-11)	erucic	0.5	4.9
22:1(n-9)	docosenoic	0.3	2.9
21:5(n-3)	heneicosapentaenoic	1.8	16.0
22:4(n-6)	docosatetraenoic	0.2	2.0
22:5(n-6)	docosapentaenoic	0.7	6.2
22:5(n-3)	docosapentaenoic	4.9	42.5
22:6(n-3)	docosahexaenoic	25.0	217.7
24:1	tetracosenoic	0.5	4.5
	minor components	4.4	

Analysis carried out on a capillary column

L. Kelly B.Sc.  
 Analytical Chemist



C. Traynor B.Sc. C.Chem MRSC  
 Head of Mylnefield Lipid Analysis

*L Kelly* 23/02/2010

Registered in Scotland 121376

*C. Traynor* 23/02/2010

Mylnefield Research Services Ltd. is a member of The Scottish Crop Research Institute Group.

# MARIFIT Immunolostrum



# MLUA ORANIENBURG

Akkreditiertes Prüflaboratorium

**MLUA ORANIENBURG** Sachsenhäuser Straße 7b – 16515 Oranienburg

**Goerlich Pharma International  
Am Gewerbering 4/6**

**83533 Edling**

Steuer-Nr.: 053/140/02107  
USt-IdNr.: DE 187877932

Datum: 16.02.2010  
Bearbeiter: Frau Hansen  
Durchwahl: 631-476  
Geschäftszeichen: IV-ha-hen

Milchwirtschaftliche  
Lehr- und  
Untersuchungsanstalt  
Oranienburg e. V.

Sachsenhäuser Straße 7 b  
16515 Oranienburg

Commerzbank Oranienburg  
KTO: 504 488 800  
BLZ: 160 400 00

Fon: +49 (0) 33 01-6 31-0  
Fax: +49 (0) 33 01-70 21 64  
e-mail: info@mlua.de  
Internet: www.mlua.de

## Prüfbericht-Nr.: 0515A/10

Ihr Auftrag vom: 11.02.2010

Probeneingang: 12.02.2010

Prüfbeginn: 15.02.2010

Prüfende: 16.02.2010

### Proben-Nr. Probenbeschreibung

01377A-10 Colostrum Kapseln, Artikel-Nr.: 55-000293, Chargen-Nr.: 155-001

*Bestimmung vom Kapselinhalt*

### Prüfergebnisse:

		01377A-10
Immunglobuline (IgG) in g/kg	analog § 64 LFGB L 01.00-65	583

*Inge Riemelt*  
(Dr. Inge Riemelt)  
Direktorin

Milchwirtschaftliche Lehr- und  
Untersuchungsanstalt Oranienburg e.V.  
Sachsenhäuser Str. 7 b  
16515 Oranienburg

"Življenje ni lahek šport." *Dariusz Kępcus*

# KOLOSTRUM SPODBUJA!

Hvala za pozornost



## MARIFIT in gibanje

Vaše telo optimizira produktivnost z redno vadbo, v kolcu ne vstaja v fronto. Vplivajte na dolgo življenjsko dobo s kolostrom MARIFIT. Več na [www.marifit.si](http://www.marifit.si)

- **KOLOSTRUM** spodbuja rast in delovanje vašega **imunskega sistema**
- esencialna frakcija kolostroma izboljšuje **obrambo telesa** z uničevanjem bakterij, virusov in parazitov
- daje več **življenjske energije**
- zavira **procese staranja**
- spodbuja vitalnost in **boljše počutje**

Imunolostrum je pridržano zdravilo. Prehranska dopolnila niso nadomestilo za uravnoteženo in raznovrstno prehrano.

LEKARNE MARIFF