

## Certificate Of Analysis

Product Name	AB-Fortis® Microencapsulated Iron
Product Code	HB52100
Specification Version	5
Specification Date	06-Oct-17
Batch Number	3826/70010
Production Date	01-OCT-2017
Expiry Date	30-SEP-2020

Parameter	Specification	Result
<b>Microbiological Characteristics</b>		
Total Plate Count	Max. 1 000 cfu/g	< 1000 cfu/g
Yeast & Molds	Max. 100 cfu/g	< 100 cfu/g
E. coli	Negative*	Absent
Salmonella	Absent/25g	Absent
Enterobacteriaceae	Max. 10 cfu/g	< 10 cfu/g
Bacillus cereus	Negative*	Absent
Staphylococcus aureus	Negative*	Absent
Listeria monocytogenes	Absent/25g	Absent
Aflatoxins	Max. 4 ppb	< 4 ppb
	* Detection limit of max. 10 cfu/g	

### Storage Information

Storage conditions	Recommended 25°C (+/-2), max. 30°C (+/-2) & dry, in well-closed original packaging
Shelf life	36 months when stored as recommended, 24 months at maximum.

### Product Status and Suitability

Patent : AB-Fortis® microcapsules and its preparation is licensed under WO2010040789A1

Frutarom Global Policy: This product is not irradiated and is non-GMO according to EC 1829/2003 and 1830/2003. This product is BSE/TSE free. Radioactivity (Cs134 + Cs137)<370 Bq/kg [Scintillation].

**This product has been carefully selected and imported for you by Frutarom Belgium NV.**

This is an accurate representation of the manufacturer's analysis but does not release the buyer from control upon receipt.

Electronically generated document. Valid without signature.

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<b>Product Information</b>		
Intended Use	Supplementation of food with iron, specially those prone to oxidation by non-encapsulated iron	
Active agent	Ferric saccharate, 40% Iron w/w	
Encapsulating material	Calcium alginate, comprising : Sodium alginate (E-401) & Calcium acetate (E-263)	
CAS No	Calcium alginate : 9005-35-0 Ferric saccharate : 8047-67-4	
Country of origin	Spain	
<b>Physical Characteristics</b>		
Appearance	Fine brown powder	Conform
Organoleptic properties	Virtually odourless & tasteless	Conform
Loss on drying	Max. 5%	1.97 %
Particle size	Max. 20 µm (Laser diffraction)	<20 µm
Solubility	Insoluble in water	Conform
<b>Chemical Characteristics</b>		
Iron	37 - 43% Fe(III) w/w Max. 1.5% Iron release in water	37.1 % 1.1 %
Calcium	Min. 2% Ca(II) w/w Max. 20% Calcium release in water	10.1 % Conform
Lead (Pb)	Max. 3 ppm	< 3 ppm
Mercury (Hg)	Max. 0.1 ppm	< 0.1 ppm
Cadmium (Cd)	Max. 1 ppm	< 1 ppm
Arsenic (As)	Max. 1 ppm	< 1 ppm
Chrome 6+	Max. 0.2 ppm	< 0.2 ppm

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TO WHOM IT MAY CONCERN

Wädenswil, 13 March 2018

## **GMO-STATEMENT**

We herewith confirm that the products belonging to Frutarom BU Health and produced at or supplied by their sites – Londerzeel (BE), Markovci (SI), Murcia (ES), Stadthagen (DE) or Wädenswil (CH) - are not required to be labeled as GMO in accordance to the valid regulations on genetically modified food and food products and to the EC-regulations concerning the labelling, admission and traceability of genetically modified food and feed<sup>1</sup>.

If this actual situation should change, we will inform you according to the mentioned legislative regulations on traceability of genetically modified food and feed products.

Yours faithfully,



**Fabio Strub**  
Regulatory Affairs

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<sup>1</sup> Regulation (EC) No 1829/2003 of the European Parliament and of the Council of 22 September 2003 on modified food and feed, amended by the Commission Regulation (EC) No 1981/2006 of 22 December 2006 and the Regulation (EC) No 298/2008 of the European Parliament and of the Council of 11 March 2008; Regulation (EC) No 1830/2003 of the European Parliament and of the Council of 22 September 2003 concerning the traceability and of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.



# HFCE

المجلس الأوروبي للأغذية الحلال Halal Food Council of Europe

4 Rue de la Presse, 1000 Brussels, Belgium | Tel: +32-2227-1114, +32-2227-2728 | Fax: +32-2218-3141 | www.HFCE.eu

Registration No: 827964482

## شهادة حلال HALAL CERTIFICATE

المجلس الأوروبي للأغذية الحلال يشهد بأن المنتجات المذكورة أدناه قد استوفت شروط الحلال وفقاً للشريعة الإسلامية

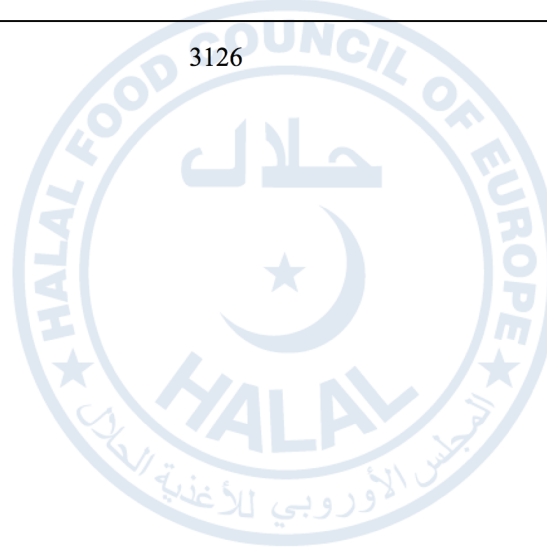
The Halal Food Council of Europe hereby certifies that the products listed below have met the Halal requirements in accordance with Islamic laws.

Date: September 29, 2017

Document #: 11208.11220.IH170002

Company Name & Address: MENADIONA, S.L. Pol. Industrial Mas Puigvert s/n, Barcelona, Catalonia 08389 Spain

Product Name	Product Code	Halal-ID	Product Certificate #
1. ABFE AB FORTIS	3126	B90162	HC-16MEYR08



  
Iqbal Ahmed Qureshi  
Director & Halal Administrator



This certificate is valid until July 31, 2018 and subject to renewal at that time.



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