CATALOG
Bee Nutrition Science

dulcofruct.com

Bee Nutrition Science DULCOFRUCT

BEE SCIENCE NUTRITION

BEE NUTRITION SCIENCE

dulcofruct.com

About Us

Welcome to the world of BEE NUTRITION SCIENCE!

A valued company that made history and gained reputation in over 16th countries by providing the best recipe for healthy and successful apiaries, offering the best nutrition for bees, energetic and protein and a basis of biostimulators.

Dulcofruct company has been an active player on the beekeeping market since 2009.

It all began as a family passion that combined hard work with love for this special beings that we call bees that grew from year to year, combining nature with today's knowledge creating the concept "Bee Nutrition" and adding the scientific studies and partnerships thus coming up with our creed "BEE NUTRITION SCIENCE"

NEW FACTORY COMING SOON

Research & Development Department

At our business core stands our Research & Development department that is continuously researching, planning and implementing new programs and protocols in our company. We are using top of the line tech and materials combined with creative abilities and research to improve our bee nutrition line to meet the hardest needs of the targeted markets.

Our key element is managing to combine the benefits of nature's ingredients with top of scientific knowledge all of this together, added to the latest technology in the market has only one result: optimum bee nutrition. Our team is conducting daily experiments and studies leaded by our bee nutrition specialists ***PhD Daniel Popovici*** and ***PhD Ovidiu Craiu.***

The main objectives of our R&D department are:

- To conceive new recipes for each apiary depending on race of bees, climate changes, multiple stress factors.

- To offer knowledge to beekeepers by presenting online and on-site seminars with the importance of having a healthy and well fed apiary, by respecting the motto "Healthy bees are happy bees!"

- To develop and combine various studies on bees with top of the class Universities from Romania, veterinary institutes, biologists and well known beekeepers.

Exclusive Feeding Experiment

Reasons for the experiment:

The experiment was conducted to support beekeepers on the sustainability of bee colonies :

- in conditions of climate change
- weather vulnerabilities
- various stress factors for bees
- long rainy periods
- reduction of floristic biodiversity
- extreme droughts
- lack of natural harvesting

Location, climatic factors, materials used

This unique test was carried out in the Eastern part of Romania, in a nectar and pollen free area. The nutrition of bee colonies was done exclusively with Dulcofruct brand products.
In general, the changeable weather with extreme climatic phenomena, rains and storms and lack of natural harvesting, create a major stress on bee colonies.

Unique experiment!

Type of feeding, types of products

Our products have been applied twice a week, in quantities tailored to bee needs. During the experiment, a purified water source was provided as well.

The development of bee families was due exclusive to the Dulcofruct products used:

- Super Protein Pattie
- Candy Board Super Protein
- Candy Board with Plants
- ApiPollen Substitute
- IdealApi Optimal Syrup
- IdealApi Complete Syrup

The hives were populated with 15.000 adult bees without brood, 7 Dadant Frames, which surprisingly developed in 65 days, reaching 80,000 individuals per colony, using only Dulcofruct nutrition solutions.

The most important indicator of the development was the amount of present brood, with dimensions measured between 80-140dm² as the bees succeeded in constructing combs and covering the frames with larvae proportional to the whole frame.

Dulcofruct products contain:

- vital sugars essential for stimulation with a perfect balance of aminoacids, minerals, vitamins, fats, microelements
- natural polyphenols and natural antiseptics, ensuring rapid growth and harmonious development of bee families

Conclusions:

Dulcofruct Company has been able to demonstrate, in such a simple way, using "Exclusive Feeding Experiment", that bees can have an harmonious, sure and explosive development when nature does not provide enough for them. The consumption of "Dulcofruct" products was excellent, the bees metabolizing all the ingredients without traces of residues.

MANUFACTURING PRESENTATION

PRODUCTION LINE

HAVE WE MET?

2015
Bucharest

2016
Andrychow Poland

2017
Apimondia Istanbul

2018
Pleven Bulgaria

2018
Blaj Romania
Honey Fest

2019
Apimondia Canada

2019
Szekesfehervar Hungary
Oroskare KFT

2019
Apirex UK

2022
Apimell Italy

2022
Apimondia Istanbul

2023
Blaj Romania
Honey Fest

2023
Apimondia
Chile

INTRO TO BEE NUTRITION

Honey bees, like all other animals, require essential ingredients for survival and reproduction.

The Honey bees essential requirements are:

1. Carbohydrates

Carbohydrates are required by both the adult and larval stage for normal growth and development. They generate energy for muscle activity and are absolutely essential for fueling flight. Carbohydrates also are the primary energy source for maintaining the required body and nest temperature. The elevated intake of carbohydrates in the form of syrup is correlated with proper wax gland function and secretion. Supplementing with carbohydrate food is done when bees need it the most, that is, in the spring and autumn periods, this resulting in a better harvest in the active season. The bees lack of access to carbohydrates leads to their death in few hours, up to 2-3 days, depending on the initial reserve for carbohydrates in the digestive tube.

2. Protein and Amino acids

Various studies have looked at the amount of pollen that a colony would need to reach healthy, productive population numbers. Most of the research estimates that a honey bee colony requires an average 20-70 kgs of pollen annually as a material base of brood development. The adult bee body protein reserve can vary widely but it is very important for immunity and lifespan modulation. This is a large range but it is dependent on the length of the season, the protein value of the local pollen sources , the genetics of the bees themselves and diverse climatic and stress factors.

A study by de Groot (1953) showed that most pollen contains all the essential amino acids: arginine, histidine, lysine, tryptophan, phenylalanine, methionine, threonine, leucine, isoleucine and valine, but when nature cannot provide this is when we interfere.

3. Lipids (fatty acids)

Lipids and fatty acids are the building blocks of phospholipids which are a major component of cell membranes. These complex lipids are the precursors to important hormones involved in the molting process during the honey bee's life cycle and serve as a primary energy store for insects in their fat bodies.

These fatty acids also are used for the derivation of different defensive secretions and they also aid in the lubrication of food.

The lipids in the bees' metabolic system come from their own synthesis, as well as from food sources.

4. Vitamins, minerals (salts)

Nectar and pollen both contain many vitamins and minerals. Pollen contains the B-complex vitamins (thiamine, riboflavin, pyridoxin, pantothenic acid, niacin, folic acid and biotin). These vitamins are crucial for hypopharyngeal gland development (Herbert and Shimanuki 1978). Pantothenic acid is now known to play a critical role in queen/worker differentiation. Riboflavin, nicotinic acid and pyridoxine have also been correlated to brood rearing.

Like the other essential nutrients pollen contains all of the essential minerals: sodium, potassium, calcium, magnesium, chlorine, phosphorus, iron, copper, iodine, manganese, cobalt, zinc, and nickel. Many of these minerals are important components in enzymatic metabolism, in the nervous system functioning and also in the reproductive system.

5. Plant antioxidants and plant active substances

Honey and pollen contain countless active substances from plants, mostly with an antioxidant role, but also with other biological functions. Although the composition of honey and pollen in terms of these components is variable, some species including various substances with a toxic effect, and other species being poor, bees are dependent on this category of substances to reach an acceptable level of well-being and of performance.

6. Water

Without water bees will die within a few days if not sooner. Water also aids in ingestion and digestion as a lubricant and carrier. Hive bees must maintain an optimal humidity of 90 to 95% in order for brood to hatch normally

Water collection is essential to thermoregulating the colony during the dry and warm seasons.

LIQUID FOOD

IDEALAPI CLASSIC SYRUP

Benefits:

- It has a chemical structure adjusted to the requirements of the bee
- Balanced mineral content
- Does not contain starch, maltose or other residual substances
- It is well digested by bees, does not wear off, does not load the intestine, does not contain pathogens or toxic substances
- Fast capping, does not crystallize in combs. It has no odor, providing protection from bee robbing

Packaging: ***13 kg/ pet***
15 kg/ bucket
2 kg/ bag
1400kg/ IBC

IDEALAPI OPTIMAL SYRUP

The fast and efficient solution for the protection and harmonious development of bee families

Benefits:

- Stimulates due to the optimal sucrose content
- Protects the intestine against pathogenic germs
- Rapid development of the bee family due to carbohydrate combinations
- Plant extracts have antibacterial and beneficial effect

Apinectar Plus does NOT contain neonicotinoids, pesticides, aflatoxins and heavy metals!

Packaging: 13kg/ pet
15kg/ bucket
2kg/ bag
1400kg/ IBC

IDEALAPI COMPLETE SYRUP

The complete composition for the developing of bee families

Benefits:

- Reduces the risk of getting sick
- Increases the queen egg laying
- Increases the power of the colony
- Complete formula for the development of bee families
- Contains vitamins, minerals, trace elements and natural polyphenols having a prophylactic effect against harmful factors

Packaging: ***13kg/ Jerrycan***
15kg/ bucket
2kg/ bag
1400kg/ IBC

IDEALAPI ENERGY SYRUP

Benefits:

- Due to its optimal pH, it can easily be capped.
- It can also be used to supplement food reserves.
- It has minimal wear because doesn't contain undigestible sugars.
- Used successfully to stimulate bee colonies between harvests due to the optimal sucrose content.

Packaging: 13kg/ pet
15kg/ bucket
2kg/ bag
1400kg/ IBC

PROTEIN FOOD

SUPER PROTEIN PATTIE

Premium product

Benefits:

- Protects the reproductive genome of both sexes
- Increases the number of excellent drone performances
- Increases the bee's immunity and longevity
- Reduces the population of Varroa
- Prophylactic treatment of harmful factors
- Does not adulterate bee products

Packaging: 5,4kg / box
450gr / piece

CANDY BOARD SUPER PROTEIN

Benefits & Advantages:

- Fat body formation
- High protein value
- Complete digestibility
- Explosive development of bees
- Well balanced formula of nutrients
- Good palatability – fast consumption – maximum results
- Stimulates the explosive development of bees by increasing the number of eggs laid

Packaging: 1 kg/ candy
10 candies/ box

CANDY BOARD WITH VITAMINS AND PROTEIN

Benefits:

- Fat body formation
- Good development of bee families
- Complete range of amino acids content adapted for bees
- Easy digestibility

Packaging: 1 kg/ candy
10 candies/ box

58% RAW PROTEIN

APIPOLLEN SUBSTITUTE

Specially created by the R&D department like a replacer of nature pollen by guaranteeing the qualitative development of the bee colonies no matter the weather conditions.

Benefits:

- Protects the intestinal flora and increases the food assimilation
- Contains only easy digestible perfect balanced elements, free residues
- Fast increase of the colony's power by production of vitellogenin extremely necessary for larvae and the brood
- Various types of administration

Recommendations :

- To increase egg laying
- To grow the production of royal jelly
- To eliminate nutritional stress on honey bees
- To rebuilt the stock of body protein
- To breed queens, drones and new colonies
- To be used where hives are placed near monoculture crops/low quality pollen

Packaging: 2 kg/ bucket
7kg/ bucket

ENERGETIC FOOD
(WINTER)

CANDY ENERGETIC

Solid energetic bee food, specially made for fast administration into the hive increasing the energetic values of the bee colonies in the cold season when the bees haven't got any fly activity

Benefits:

- Increases the bees' longevity
- Assures the energetic reserves in the cold season
- Easy assimilation due to creamy content

Package: 1kg/ candy
10 candies/ box

CANDY ENERGETIC FORTE

Solid energetic bee food that has inverted sugars, saving the bees energy in the cold season

Benefits:

- Varroa mite control benefit
- Saves the bees energy
- Fast assimilation
- Easy handling

Package: 1kg/ candy
10 candies/ box

CANDY ENERGETIC WITH VITAMINS

Candy with Vitamins has as its target to develop young colony with time saving

Benefits:

- Increase the queen spawn
- Low pH that prevents the appearance of diseases
- Easy handling
- Increase the ability of nurses to feed the larvae
- Increase the immune status of the population

Package: 1kg/ candy
10 candies/ box

CANDY ENERGETIC WITH PLANTS

Solid energetic bee food that contains natural polyphenols, with natural antiseptics and antibiotics from plant origin

Benefits:

- Provides protection against Nosema
- Increases intestinal resistance and general immune status of bee family
- Fast assimilation
- Queen's brood stimulation

Package: 1kg/ candy
10 candies/ box

BIOSTIMULATORS

BEE IMMUNITY BOOSTER GEL/ LIQUID

ULTRASOUNDS TECHNOLOGY

Increases bee longevity, vitality and diseases resistance

Benefits:

- Scientifically tested and proven product that helps to increase the average life of the bee with minimum 20%
- There are no restrictive administration periods
- Improves hygiene instinct
- It enhances the bee's central nervous system
- Increases immunity
- Natural active ingredients
- Easy to use

Packaging: 150gr/ tube – gel
250ml/ bottle - liquid

ULTRASOUND

BEEVIROL

Biostimulator with antibacterial effect

Benefits:

- Antibacterial - eliminates pathogenic bacteria
- Antiviral - relieves the symptoms of viruses until remission
- Prevents the appearance of American and European locca
- Boosts the harvesting rhythm and the hygienic behavior
- Increases the ability to orient
- Increases the lifespan of bees
- Stimulates the queen's laying

Package: 1l/ jerrycan
5l/ jerrycan

APIPLANT

It is an alcoholic extract of medicinal plants

The active substances, including plant polyphenols, also have a nutritional role, canceling the impact of the deficiencies generated by monoflora honey or some types of artificial food, but especially it beneficially influences through the effects:

- antifungal, stopping the development of Nosema apis and Nosema Ceranae
- immunostimulator at several levels in the body of bees
- antiseptic

Benefits:

- Protects the bees
- Increases endurance
- Blocks Nosema
- Increases bees longevity
- Increases queens laying

Package: 500ml/ pet

NANOTECHNOLOGY

ALBANIA

Farmaci & Aksesore Veterinare Bulku
Rruga Bashkia Vorë, Albania
Phone: +355 69 730 1401

BELGIUM

Bee Box World SCRL
Rue du Trou du Sart 8
5380 Fernelmont
Phone: +32 81 36 37 38

BULGARY

"STATERA GT" OOD.
Veliko Tarnovo , 7juli str. N23
Phone:+359 89 8669037

CANADA

CANADA BEE SUPPLIY INC
792 Ossington Ave, Toronto,
ON M6G 3V1
Phone: +1 647-250-7252

ESTONIA

Metsatuka Mesila
Nõlvaku, Kuku küla, Raplamaa, Eesti
Phone: +372 5647 3549

FRANCE

Icko Apiculture
60 Impasse des senteurs,
26130 Saint-Paul-Trois-Châteaux,
Phone: +33 4 90 40 49 71

GERMANY

Imkerei Claußen

Moorweg 1/2 4784 Westerronfeld
Tel: +49 (0) 176 41605582

HUNGARY

Dulcofruct cukorlepény
60 Impasse des senteurs,
26130 Saint-Paul-Trois-Châteaux,
Phone: +33 4 90 40 49 71

ITALY

Vedal S.R.L.
Via Innsbruck, 22
38121 Località Produttiva,
Trento (TN) Italia
Phone +39 0461 822245

LATVIA

UAB "Bitė Tuk"
Vilnius
Phone +370 61601482

LYBIA

FARM COMPANY LTD
4th circular road,Misurata, LIBYA
Tel: 00218915115151

LITHUANIA

UAB "Bitė Tuk"
Vilnius
Phone +370 61601482

NETHERLANDS

Imkershop
Brandenburglaan 8
4333BZ Middelburg
Tel:+31 06-220 830 90

NEW CALEDONIA, AUSTRALIA AND NEW ZEALAND

AU RUCHER SARL

POLAND

PRZEDSIĘBIORSTWO PSZCZELARSKIE TOMASZ ŁYSOŃ SP.Z O.O. SP.K.
Sułkowice, ul. Racławicka 162,
Klecza Dolna 148, 34-124 Klecza Górna
Phone: +48 33 875-99-40

REPUBLIC OF IRELAND

Dingle Beekeeping Supplies
Dingle Beekeeping Supplies
Tralee, County Kerry, Ireland
Phone: +353 87 775 2807

REPUBLIC OF MOLDOVA

S.R.L. REGINA NATURII
Raionul Ialoveni, s.Costeşti, str.Turnul Alb 9
Phone: +373 079 089 996

SCANDINAVIAN COUNTRIES: SWEDEN, DENMARK, FINLAND, NORWAY

Honungsgården på Bjäre
Förslövsvägen 131
266 98 Hjärnarp

SLOVAKIA

Vcelarium
P.O. Hviezdoslava 723/50
areál Park Prosperity 01001 Žilina
Phone: +4 21 911 187 173

SLOVENIA

IZARA,

INŠTITUT ZA IZVIRNO KMETIJSTVO D.O.O.

SPAIN

LA TIENDA DEL APICULTOR SLU
B98793227 C/ Casals, 4 (Pol. Ind. Casals)
Xeresa - Valencia (46790)
Phone: +34 670 393 011

TURKEY

ApiMaye Arıcılık
Beylikdüzü Organize Sanayi Bölgesi Açelya
Cd Birlik San Sit, D:1/1 No:12, 34520
Beylikdüzü/İstanbul
Tel: +90 212 876 76 55

UNITED KINGDOM

Maisemore Apiaries Ltd
Old Road
Maisemore
Gloucester
Gl2 8ht
Phone: 01452 700289

CHECK OUT OUR LOCATIONS

LOOKING TO BUZZ AROUND

Andorra
Armenia
Austria
Belarus
Cyprus
Czech Republic
Malta
Montenegro
Portugal
Switzerland

We are here for you!

Would you like to find out more about our products?

Our staff will gladly respond to all your requests.

www.dulcofruct.com
office@cirast.com
Dulcofruct Bee Nutrition Science
dulcofruct_beenutritionscience
Dulcofruct

THANK YOU!

Bee Nutrition Science

© dulcofruct 2023

THANK YOU!