



EXTRAMEL[®] microgranules



Antioxidant melon extract

● A new source of antioxidant compounds

● A natural cocktail of antioxidants

● Controlled production line

● Use in food

● Antioxidant activity

A new source of antioxidant compounds

Developed by BIONOV who has a partnership with a French company specialised in melon variety selection.

The story began 10 years ago with the discovery of interesting characteristics of certain melon varieties (extramel[®] variety) obtained through classical variety crossing (that means non-GMO) : a fruit lasted 10 to 15 days, 3 times more than classical variety.

Extensive research has since demonstrated the presence of an important quantity of antioxidant substances in this variety.



A natural cocktail of antioxidants

Characteristics

Appearance : microgranules

Colour : cream

Technical information :

- non water soluble
- temperature max. 40°C

Composition :

- 20% melon extract
- 80% vegetable fat matter

Antioxidant content :

- SOD activity 14 units/mg
- catalase / coenzyme Q10

The melon extract contains several antioxidants as SOD (Superoxide Dismutase), catalase, co-enzyme Q10, carotenoids, vitamins A, E & C, glutathion, selenium, ...

This cocktail of anti-oxidants naturally present in the fruit gives to EXTRAMEL[®] microgranules its unique properties and originality.

To protect the antioxidants and optimise bioavailability, the melon extract is micro-encapsulated in an hydrogenated

fat matter of GMO-free vegetable origin.

Controlled production line

A.S.L. is the owner of the variety and produces the seeds. The production is given to selected producers and extraction process is carried out at BIONOV plant. This process only uses the pulp of the melons and is only based on physical steps to guarantee a 100% natural product.

The whole process, from the melon variety to the final product, is patented.

Use in food

Because of its natural and original source EXTRAMEL® microgranules is perfectly suited for use in health food and dietary supplements

The raw material is the pulp of the melon. No additives are used for antioxidant extraction. Extraction is carried out by physical means only. Micro-encapsulation is achieved with a food approved hydrogenated fat matter of non-GMO vegetable origin. EXTRAMEL® microgranules is a 100% natural product.

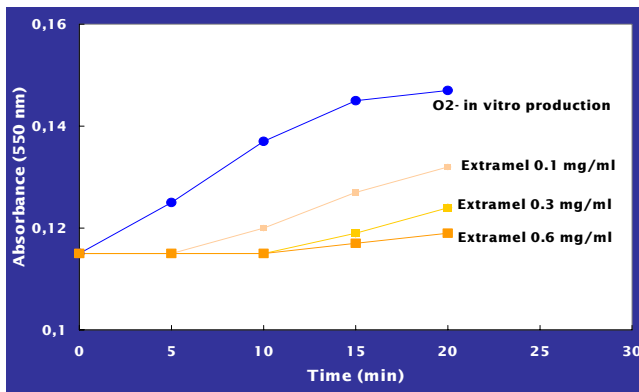
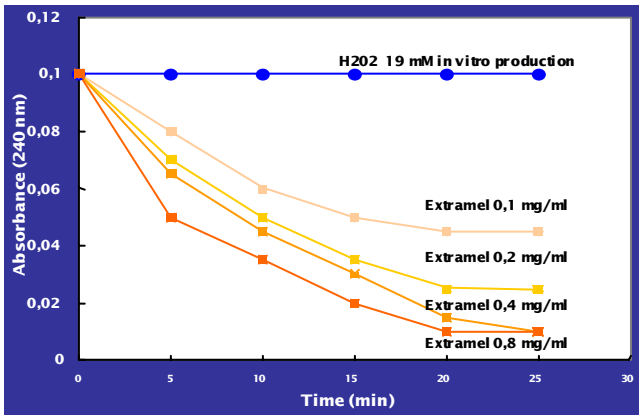
Applications

- Dairy products
- Cereals & bars
- Sport products
- Dietary supplements

Optimal daily dosage :

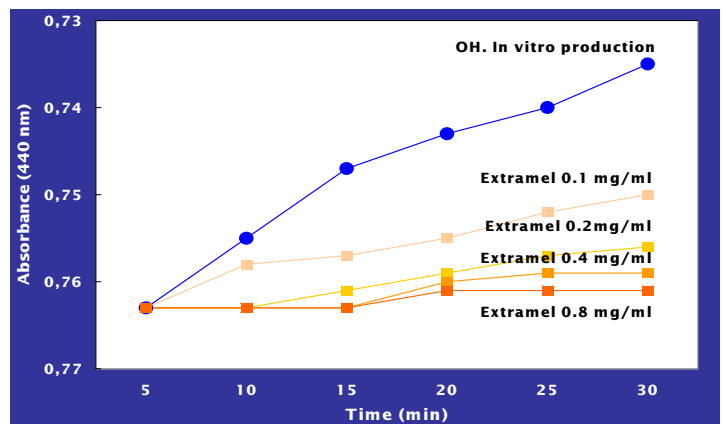
- 10 mg/day

Antioxidant activity



SOD and other antioxidants act against the deleterious effects of active oxygen species.

Oxygen, an essential molecule for many forms of life, is also a destructive agent for living tissues when it is in its active forms : hydrogen peroxide (H₂O₂), superoxide radicals (O₂⁻), hydroxyl radicals (OH[•]), ...



These free radicals which are reactive substances are able to react with biological molecules causing lipid peroxidation, protein denaturation and damage to DNA which causes irreversible changes to its molecular structure. Radical scavenging effect of

EXTRAMEL® has been tested with a 3D test, which highlights the protective effect of the product for DNA against hydroxyl radicals. These results show the effect of the melon extract EXTRAMEL® as antioxidant substance.

Nota

The analytical specifications warranted are only those mentioned on the certificate of analysis supplied with each delivery of the product.

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