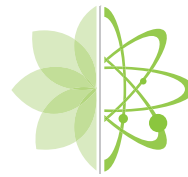




COSMOS
APPROVED



naturalis®
LIFE TECHNOLOGIES



PHYTO-COMPLEX DET

(Purifying, detox Plant Complex)



Arnica Montana



Melissa Officinalis



Eucalyptus Globulus



Juniperus Communis



Salvia Officinalis



Ruscus Aculeatus

DESCRIPTION:

Synergic composition of plant extracts obtained by ultrasonic waves at low temperature Phyto-Complex DET contains a particular blend of plants extracts able to increase the detoxifying ability of cell of skin against free radicals by cellular enzymes such as Catalase and Superoxide Dismutase (SOD). It constitutes a new concept to fight reactive oxygen species and radicals by a natural approach.

COMPOSITION:

- Arnica Montana
- Melissa Officinalis
- Eucalyptus Globulus
- Juniperus Communis
- Salvia Officinalis
- Ruscus Aculeatus

COSMETIC INTEREST:

Phyto-Complex DET is used to formulate any skin and hair care products with detoxifying and antipollution activity. It can be easily added to emulsions, gels, shampoos, and hair lotion

ACTIVITY:

Detoxifying, Purifying, Soothing, Refreshing, Protective.

INCI NAME:

Arnica Montana Flower Extract, Melissa Officinalis Leaf Extract, Eucalyptus Globulus Leaf Extract, Juniperus

Communis Fruit Extract, Salvia Officinalis Leaf Extract, Ruscus Aculeatus Root Extract, Glycerin, Aqua.

INCI NAME (CTFA):

Arnica Montana Flower Extract, Melissa Officinalis (Balm Mint) Leaf Extract, Eucalyptus Globulus Leaf Extract, Juniperus Communis Fruit Extract, Salvia Officinalis (Sage) Leaf Extract, Ruscus Aculeatus Root Extract, Glycerin, Water.

CAS N°: 68990-11-4, 84082-61-1, 84625-32-1, 84603-69-0, 84082-79-1 / 8022-56-8, 84012-38-4, 56-81-5

EINECS N°: 273-579-2, 282-007-0, 283-406-2, 283-268-3, 282-025-9/-, 281-682-9, 200-289-5

SPECIFICATION:

Density (at 20° C):	1,12 ± 0,010
pH:	6,0 ± 0,5
Dry matter:	3 – 5%
Appearance:	Clear liquid
Colour:	Dark amber
Odour:	Slight aromatic
Refractive index:	1,40 – 1,44
Bacteria:	< 100 germs/ ml
Yeast & Moulds:	< 10 germs/ ml

PRESERVATIVE:

Benzyl Alcohol (0,6%), Sodium Benzoate (0,18%), Potassium Sorbate (0,12%)

PHYTO-COMPLEX DET (Purifying, detox Plant Complex)



SOLUBILITY:

Soluble in water phase

RECOMMENDED USAGE:

Use level: 3-5%

Formulating pH range: any value

Formulating temperature range: 20 to 75°C

CERTIFICATION STATUS:

Natural product

ECOCERT Approved

COSMOS Approved

GMOrganisms

Not tested on animals

SAFETY & TOXICITY

Reference COMMISSION REGULATION (EC) No 987/2008 of 8 October 2008 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

- non-irritating
- non-toxic

PACKAGING:

10 kg Plastic drum

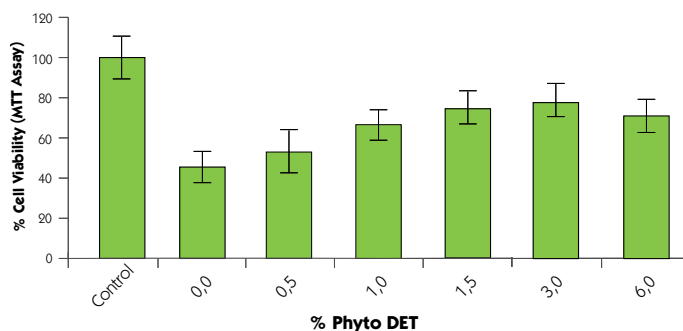
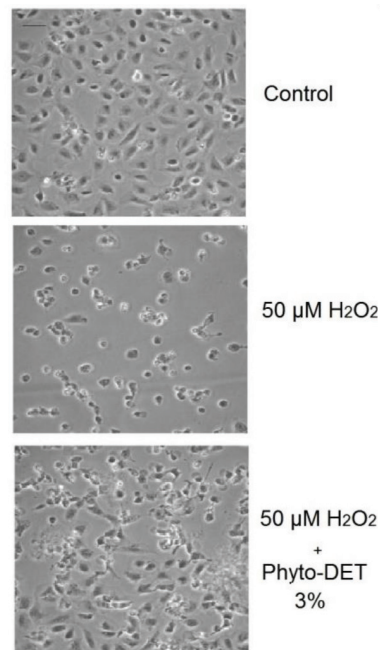
SHELF LIFE:

18 Months away from light and heat source, closed containers.

CLAIM SUBSTANTIATION:

IN VIVO: Cultured NIH 3T3 cells pretreated with different % of PHYTO-COMPLEX DET (0,5-6,0%) overnight followed by 2h of 50µM of H₂O₂ stimulation. After-

wards, the cell were washed to remove H₂O₂ and incubate with fresh medium for 48 hours. At the end of this period cell viability was assessed using MTT assay.



In an In vitro test, carried out on monolayer cell culture of NIH 3T3, PHYTO-COMPLEX DET has showed to be effective in the reduction of toxic effects produced by treatment with hydrogen peroxide, increasing the cell viability of more than 40%