



Pre^eNatTM

THE natural antioxidant

Pre NatTM

Compound of essential oils with high antioxidant power

- Reduces inflammatory states
- Controls immunodeficiency
- Reduces physiological stress: cells, tissues, organs
- Improves immune stimuli of cell membranes
- Improves resistance to diseases

ANTIOXIDANTS

NATURAL

Reducing Agents: Ascorbic Acid - Erythorbic Acid - Sulphites
Chelating Agents: Citric Acid - Tartaric Acid - Phosphoric Acid

“QUENCER”
“SCAVENGER”

β - CAROTENE TOCOPHEROLS
TOCOPHEROLS

FLAVONOIDS: QUERCETIN - MYRICETIN - LUTEIN

DITERPENES: CARNOSOL - CARNOSIC ACID - ROSMANOL

FENOLIC ACID: CAFFEIC ACID - FERULIC ACID - PHROTOCATECHUIC ACID

CHEMICAL

BHA

BHT

ETHOXYQUIN

With possible side effects

Lipid oxidation

Causes alterations in:

Organoleptic Characteristics: *colour *smell *taste

Nutritive value: *vitamins *amino acids *essential fatty acids

Dangerous Compounds: *inflammatory effects

1 st STAGE:

RADICALS

HYDROPEROXIDES

Factors which favour oxidative rancidity in fats

Presence of oxygen

Degree of saturation

Exposition to light and high temperatures

Presence of metals

Initial amount of peroxides

2 st STAGE:

ALDEHYDES

CARBOXYLIC ACIDS

ALDEHYDES CARBOXYLIC ACIDS

Plants which can defend us from free radicals

Metabolizing/producing antioxidants from sugar, amino acids, fatty acids

example:

Ascorbate-1, fillochinone, plastochinone, tecopherol, phenols, Flavonoids-4, carotenoids

Experimental results

Comparison of the antioxidant activity between natural and synthetic substances on food matrices of vegetal origin.

Value of peroxides (meq O₂/Kg) in seed oil at B.M. 40°C

	Ethoxyquin	Pre Nat™
0 h	6,05	6,50
2 h	6,15	6,55
4 h	6,25	6,60
6 h	6,30	6,65
12 h	6,45	7,20

Value of peroxides (meq O₂/Kg of feed) feed for broiler at B.M. 40°C

Product	10 gg	20 gg	30 gg	Dosage
Feed t.q.	0,55	0,96	1,70	
Pre Nat™	0,20	0,22	0,27	0,15%
Rosemary	0,32	0,44	0,60	2,20%
Ethoxyquin	0,13	0,14	0,18	100ppm

Ethoxyquin 100ppm

Pre Nat™ 400ppm

Animal Wellness Products



info@awpint.com

www.awpint.com