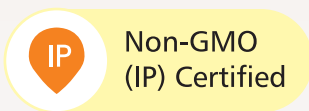


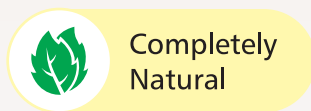
Naturall-Re

Rosemary Extracts

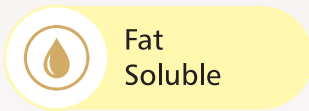
Matrix Life Science is a life science division of a 50 year old group, incorporated in the year 2013. We offer the best nutraceutical and natural food ingredients to provide complete antioxidant solutions with multiple health benefits manifested through extensive research. We specialize in the extraction of Natural Tocopherols (Vitamin E) & Plant Sterols from 100 % Non-GMO Soy(IP) and Sunflower sources. We offer a wide range of products that cater to the Food, Feed, Nutraceutical, Pharmaceutical, Cosmetic, Personal Care and Bio-fuel sectors.



Non-GMO
(IP) Certified



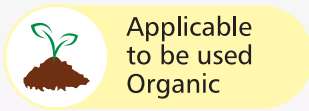
Completely
Natural



Fat
Soluble



Resistant
to High
Temperature



Applicable
to be used
Organic



Customized
Solutions

MASTER ANTIOXIDANT WITH MULTIPLE BENEFITS



Anti-
inflammatory



Anti-
ageing



Anti-cancer
activity



Anti-
microbial

Introducing Rosemary Extracts

Globally Rosemary is grown between 9°C to 28°C with pH of soil maintained at 4.5 to 8.7 with the rainfall of 0.3 to 2.7 meters.

We Matrix Life Science has overcome the challenge to successfully cultivate Rosemary in the unpredictable climatic conditions of Paithan, Aurangabad region and brought Rosemary from farm to table with advanced agro-technologies.



FARM
TO
TABLE



Naturall-Re Rosemary Extracts	Concentration
Carnosic Acid Oil	5%, 10%, 20%
Carnosic Acid Powder	10%, 20%, 90%
Ursolic Acid Powder	45%



Rosemary
farming



Extraction
process



Regular Rosemary
extract with
pungent odour



MLS - Proprietary
Deodorization
Technique



Naturall-Re
Rosemary Extracts
Extract with herbal
tingent odour

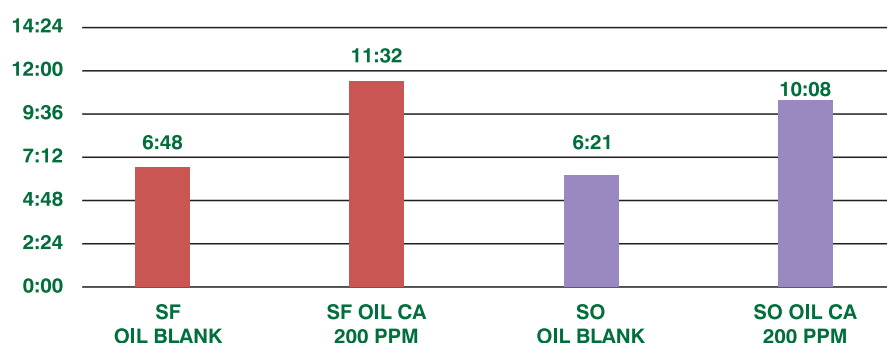
Study on oxidative stability of soy oil & sunflower oil fortified with Naturall-Re (Carnosic Acid - CA)

The effect of Naturall-Re on the stability of soya and sunflower oil fortified with Carnosic acid was analysed using OXITEST- Oxidation Stability Reactor. The rate of oxidation reaction was accelerated by two parameters: temperature & pressure.

All the samples were analysed at 90°C under 6 bar pressure & recorded as IP (Induction Period) values that is the time required to reach start point of oxidation.

The longer the induction period, the stability against oxidation over time is higher. The instrument measures the absolute pressure drop in oxidation reactor as shown in (graph 1)

Graphical representation of Oxidative stability of soy oil (SO) & sunflower oil (SF) fortified with Naturall-Re (Carnosic Acid - CA)



Graph Result

ID	Sample	Set point T (°C)	Set point P (bar)	IP (h:m)
F1	SUNFLOWER (SF) OIL BLANK	90.0	6.00	06:48
F2	SUNFLOWER (SF) OIL CA 200 PPM	90.0	6.00	11:32
F3	SOY (SO) OIL BLANK	90.0	6.00	06:21
F4	SO OIL CA 200 PPM	90.0	6.00	10:08

CONCLUSION : The result for oxidation stability of sunflower oil & soy oil fortified with carnosic acid 200 ppm are shown in (Graph1) which shows the Naturall-Re is more stable at 200 ppm i.e. Sunflower oil & soy oil with 200 ppm Naturall-Re shows stability compared with blank sample of sunflower oil & soy oil.

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Food



Cosmetics



Pharmaceuticals



Dietary supplements



Pet feed



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