



Organic Rosemary Antioxidant CO2 Extract, 25% DTP
 INCI: Rosmarinus Officinalis (Rosemary) Leaf Extract (and)
 Helianthus Annuus (Sunflower) Seed Oil
 Product ID: ORGCO2ROE25DE52

Specifications

Analytical Details

Appearance:
Odor:
Total Volatile Flavor Compounds:
Total Content of Borneol, Borneyl Acetate, Camphor, 1,8-Cineole, Verbenone:
Residual Content of Ethanol:
Content of Water:

Methods

Visual
 Organoleptic
 21.135.02, GCMS, Quantitative
 21.135.02, GCMS, Quantitative
 21.025.05, GCFID
 21.220.01, Karl Fischer Method

Specifications

Dark Brown Viscous Liquid
 Weak Odor
 < 4.0%
 Not Specified
 < 2.0%
 < 1.0%

Polyphenolic Profile

Rosmanol: 21.028.06, HPLC Not Specified
7-methyl-Rosmanol: 21.028.06, HPLC Not Specified
Carnosol: 21.028.06, HPLC Not Specified
Carnosic Acid: 21.028.06, HPLC > 10%
12-o-methyl-Carnosic Acid: 21.028.06, HPLC Not Specified
Sum of Phenolic Diterpenes (as Carnosic Acid): 21.028.06, HPLC 15 - 18%
Reference AO Compounds Carnosol + Carnosic Acid (as Carnosic Acid): 21.028.06, HPLC 13 - 16%
Betulinic Acid: 21.028.06, HPLC Not Specified
Ursolic Acid: 21.028.06, HPLC Not Specified
Oleanolic Acid: 21.028.06, HPLC Not Specified

Shelf Life: 5 Years

Note: According to Rancimat testing (in lard at 120 °C and 15 L/hr air flow), 200 ppm of Rosemary Antioxidant has 1.2 times as much anti-oxidative activity as 500 ppm alpha Tocopherol and 500 ppm Rosemary Antioxidant has 1.6 times as much anti-oxidative activity as 500 ppm alpha Tocopherol.

Date: 12/08/2023

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