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## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** Marrubium Extract  
**INCI Name:** Glycerin, Water, Marrubium Vulgare Flower/Leaf/Stem Extract  
**CAS Number:** 56-81-5, 7732-18-5, 84696-20-8  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 36 months from production date

Specification	Range	Actual
Appearance (Internal Method, Visual)	Clear to slightly opalescent, yellow to brown colored, slightly viscous liquid with characteristic odor	Pass
Identity by HPLC (Internal Method, RP C18, UV 320nm)	Comparable chromatogram to that of internal reference standard	Pass
pH (EP 2.2.3, Potentiometric)	3.5 - 5.0	4.3
Relative Density (EP 2.2.5, Digital Density Meter)	1.100 - 1.250	1.175
Refractive Index (EP 2.2.6, Digital Refractometer)	1.418 - 1.438	1.422
Phenolic Acids by UPLC (Internal Method, RP C18, UV 320nm)	≥30 mg/100g	83 mg/100g
Total Aerobic Microbial Count - TAMC (EP 2.6.12, Pour Plate Method)	≤100 CFU/g	Corresponds
Total Aerobic Microbial Count - TYMC (EP 2.6.12, Pour Plate Method)	≤100 CFU/g	Corresponds
Specified Microorganisms (EP 2.6.13)	Not detectable in one gram	Corresponds

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.” This report is not to be signed. All data are as per our supplier.

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