

## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** Sweet Fennel Essential Oil  
**INCI Name:** Foeniculum vulgare dulce (Sweet Fennel) essential oil  
**CAS Number:** 8006-84-6  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 12 months from production date

Analytical Tests	Specification	Analysis
Appearance	Colorless to clear slightly yellowish liquid	Pass
Odor	Fresh, spicy, sweet scent reminiscent of licorice	Pass
Solubility	1:1 in 90% alcohol	Pass
Specific Gravity at 20o C	0.949 – 0.962	0.955
Refractive Index at 20oC	1.532 +/- 0.006	1.54
Optical Rotation	+12 - +24 degrees	16.8
Trans-Anethole	50-80%	66
Fenchone	< 15%	13.9
Estragole	1-6%	3.5

The above data were 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.

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