

Certificate of Analysis

Product: Caraway Seed Oil – BIO

Botanical Name: *Carum carvi L.*

Country of Origin: Hungary

PHYSICAL AND CHEMICAL PROPERTIES

TEST	RESULT	SPECIFICATION
Specific Gravity @ 20° C	0.912	0.901 - 0.920
Refractive Index @ 20° C	1.485	1.480 - 1.489
Optical Rotation @ 20° C	+73°	67° - 80°

GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	RESULT (%)	SPECIFICATION (%)
α pinene	<0.05	
β pinene	<0.05	
sabinene	<0.05	
myrcene	0.46	
limonene	41.52	38.00-50.00
β phellandrene	0.11	
paracymene	<0.05	
cis limonene oxyde	<0.05	
trans limonene oxyde	<0.05	
cis dihydrocarvone	0.65	
trans dihydrocarvone	0.16	
carvone	57.06	50.00-58.00
trans carveol	0.05	