

CERTIFICATE OF ANALYSIS
Khusitani Savory Essential oil

Product Name: Khusitani Savory Essential oil

Botanical Name: *Satureja khuzistanica* Jamzad

Extraction process: hydro-distillation

Characteristic	Test results	Acceptance limit	Test Method
Appearance	Confirm	Liquid	Organoleptic
Color	Conform	Yellow	
Odor	Conform	Thyme characteristic odor	
Optical Rotation	-1.4	-	
Refractive Index	1.518	-	
Density at 20 °C	0.975	-	
Chemical Composition of essential oil			GC-MS analysis
β-Thujene	0.04	Carvacrol >90%	
α-Pinene	0.10		
Camphene	0.04		
β-Pinene	0.06		
β-Myrcene	0.19		
1-Phellandrene	0.02		
α-Terpinene	0.23		
p-Cymene	1.42		
dl-Limonene	0.06		
γ-Terpinene	0.73		
Cis-Sabinenehydrate	0.06		
Linalool L	2.03		
Borneol	0.54		
Terpene-4-ol	0.29		
Carvone	0.06		
Carvacrol methyl ether	0.17		
Thymol	0.71		
Carvacrol	91.83		
Carvacryl acetate	0.10		
trans-Caryophyllene	0.39		
Aromandendrene	0.08		
β-Bisabolene	0.73		
Caryophyllene oxide	0.06		
γ-Cadinene	0.06		