

CERTIFICATION OF ANALYSIS

**PRODUCT IDENTIFICATION**

Bergamot Essential Oil Italy - PA-100PC	
botanical origin	Citrus bergamia, RISSO et POITEAU
chemical identification & grade	100% Natural Complex Substance
scheduling agreement number & line item indicator	
Customer mat. #	
Permitted use	FRG

**DELIVERY IDENTIFICATION**

Order nr.	25-090-S
Delivery note	005433/25
Shipment date	2025-10-31
Batch number	25/08653
Manufacturing date	2025-10-31
Expiry date	2027-10-31

**GC**

pinenes (α + β)	8,40%	≤ 15,00%	erkinElmer GC Clarus 680-690 / SHIMADZU GC-2030 - GC-2030-Fa
limonene	45,00%	35,00% ÷ 55,00%	erkinElmer GC Clarus 680-690 / SHIMADZU GC-2030 - GC-2030-Fa
γ-terpinene	5,40%	2,00% ÷ 7,00%	erkinElmer GC Clarus 680-690 / SHIMADZU GC-2030 - GC-2030-Fa
linalool	14,25%	8,00% ÷ 18,00%	erkinElmer GC Clarus 680-690 / SHIMADZU GC-2030 - GC-2030-Fa
citronellol	< 0,01%	≤ 0,10%	erkinElmer GC Clarus 680-690 / SHIMADZU GC-2030 - GC-2030-Fa
citral	0,20%	≤ 0,90%	erkinElmer GC Clarus 680-690 / SHIMADZU GC-2030 - GC-2030-Fa
linalyl acetate	15,65%	10,00% ÷ 20,00%	erkinElmer GC Clarus 680-690 / SHIMADZU GC-2030 - GC-2030-Fa

Description	Value	Range	measuring instrument
<b>PHISICAL/CHEMICAL ANALIS VS</b>			
<b>Physical &amp; Chemical</b>			
appearance	liquid	liquid	sensorial
colour odour relative	greenish	yellow to greenish	sensorial
density d 20/4 optical	APS		sensorial
rotation a 20/d	0,8685	0,8640 -r 0,8840	Anton Paar DMA 4500
refractive index n 20/d	36,16°	20,00° 40,00°	Optical Activity POLAAR 20
peroxides _____	1,4668	1,4600 1,4720	Anton Paar RXA170
	<u>12.00mmol/l</u>	<u>&lt; 20.00mmol/l</u>	CDR- FOODLAB

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