



ANALYTICAL CERTIFICATE

№ 715 /07.072017

Test samples: BULGARIAN ROSE OIL

Batch 2017

Producer: "LEMA" LTD – Bulgaria

PHYSICO-CHEMICAL PROPERTIES ACCORDING BULGARIAN STATE STANDARD

Appearance

Fluid transparent liquid above the congealing point

Colour

Yellow

Odour

Typical of Bulgarian Rose Oil

Characteristic components (by GC-MS-analysis), %

| | |
|---|--------------|
| 1 Ethanol | 1.34 |
| 2 cis-Rose oxide | 0.21 |
| 3 trans-Rose oxide | 0.11 |
| 4 β-Linalool | 0.95 |
| 5 Citronellol | 27.28 |
| 6 Nerol | 10.11 |
| 7 Geraniol | 19.71 |
| 8 Geranyl acetate | 1.18 |
| 9 β-Phenyl ethanol | 1.39 |
| 10 Heptadecane (parafine C₁₇) | 1.70 |
| 11 Methyleugenol | 1.79 |
| 12 Nonadecane - (alkan C₁₉) | 12.89 |
| 13 Nonadecene - (alken C₁₉) | 2.38 |
| 14 Eugenol | 2.07 |
| 15 Eicosane (parafine C₂₀) | 1.03 |
| 16 Heneicosane (parafine C₂₁) | 5.28 |
| 17 Farnesol | 2.08 |
| 18 Tricosane (alkan C₂₃) | 1.14 |

CONCLUSION:

THE TESTED SAMPLES HAS THE PHYSICO-CHEMICAL PROPERTIES OF THE PURE GENUINE NATURAL BULGARIAN ROSE OIL, CORRESPONDING TO THE NORMS OF BULGARIAN STATE STANDARD.

LABORATORY ASSISTANT:

(surname ; signature)

HEAD OF LABORATORY:

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