



ANALYTICAL CERTIFICATE

№ 602/14.06.2018

Test samples: BULGARIAN ROSE OIL

Batch 1/2018

Producer: "LEMA" LTD – Bulgaria

PHYSICO-CHEMICAL PROPERTIES ACCORDING BULGARIAN STATE STANDARD

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|--|---|
| Appearance | Fluid transparent liquid above the congealing point |
| Colour | Yellow |
| Odour | Typical of Bulgarian Rose Oil |
| Characteristic components (by GC-MS-analysis), % | |
| 1 Ethanol | 1.89 |
| 2 cis-Rose oxide | 0.24 |
| 3 trans-Rose oxide | 0.14 |
| 4 β -Linalool | 0.92 |
| 5 Citronellol | 31.17 |
| 6 Nerol | 8.50 |
| 7 Geraniol | 16.22 |
| 8 Geranyl acetate | 0.99 |
| 9 β -Phenyl ethanol | 1.02 |
| 10 Heptadecane (parafine C17) | 1.84 |
| 11 Methyleugenol | 1.67 |
| 12 Nonadecane - (alkan C19) | 11.78 |
| 13 Nonadecene - (alken C19) | 4.87 |
| 14 Eugenol | 1.45 |
| 15 Eicosane (parafine C20) | 1.13 |
| 16 Heneicosane (parafine C21) | 5.35 |
| 17 Farnesol | 1.33 |
| 18 Tricosane (alkan C23) | 0.85 |

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:
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