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**CERTIFICATE OF ANALYSIS**

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**GENERAL INFORMATION**

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Product Description : Turkish Rosa Damascena Rose Oil  
Product Name : 2021 Rose Otto  
Date of Manufacture : July 2021

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**ORGANOLEPTIC ANALYSIS**

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Aspect : Liquid  
Odour : Characteristic rose, floral, spicy  
Colour : Light yellow - green

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**PHYSICAL-CHEMICAL PROPERTIES**

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|                  | <b>Test</b>    | <b>Standarts</b>     |
|------------------|----------------|----------------------|
| Density          | : 0.865 (20 C) | 0.858 – 0.878 (20 C) |
| Refractive index | : 1.459 (20C)  | 1.452 – 1.465 (20 C) |
| Optical rotation | : -4           | -6 to -2             |
| Purity           | : conforms     | 100 % Natural        |
| Citronellol      | : 32.5 %       | 29 - 42 %            |
| Geraniol         | : 18.9 %       | 13 - 24 %            |
| Solubility       | : 90 % alcohol |                      |

Appalachian Valley Natural Products certifies that the quality of this product conforms to our product specifications

CAS NO.: 8007 –01-0  
FEMA : 2989  
FDA Reg. Nr.: 13704218380

