

Specification Sheet

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|-----------------------------|---|
| Product Description: | Chamomile Oil, Roman |
| Expiration: | 3 years from date of manufacture |
| Latin Name: | <i>Anthemis nobilis</i> |
| Country of Origin: | USA |
| Item Code: | AntNob2 |
| Storage Condition: | Oils should be stored in an airtight container; avoid light exposure. |

ORGANOLEPTIC SPECIFICATIONS

| Organoleptic Analysis | Method | Limit/Range |
|-----------------------|---------------------------|---|
| Appearance | Visual Inspection | Semi-Opaque, Colorless to Blue-Green, Mobile Liquid |
| Odor | Organoleptic with Control | Floral, Herbaceous, Sweet |

PHYSICAL ANALYSIS SPECIFICATION

| Physical Analysis | Method | Limit/Range |
|-------------------|--------------------------------|------------------|
| Specific Gravity | USP <841> or Equivalent Method | 0.8900 to 0.9050 |
| Optical Rotation | USP <781> or Equivalent Method | -2 to +6* |
| Refractive Index | USP <831> or Equivalent Method | 1.4380 to 1.4510 |

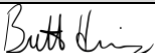

*Occasionally Not Measurable due to color

GC CHEMICAL ANALYSIS SPECIFICATION

| Component | Method | Limit/Range |
|------------------------|------------------------|-------------|
| Isobutyl angelate | USP <621> and USP<736> | 7-18% |
| 2-Butyl tiglate | USP <621> and USP<736> | 7-15% |
| Isoamyl tiglate | USP <621> and USP<736> | 4-12% |
| 4-Methyl amyl angelate | USP <621> and USP<736> | 2-12% |
| Isoamyl angelate | USP <621> and USP<736> | 2-12% |

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|-------------------------|--|
| Retained Samples | 1 container of 15 mL of oil, which contains the product name, item code, and lot number; must be pulled for Quality Control's retention samples. |
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AUTHORIZED APPROVAL

| Department | Authorized Signatures | Date |
|-------------------|---|------------|
| Chemist |  | 06/18/2018 |
| Quality Scientist |  | 06/12/2018 |

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| Effective Date | 06/18/2018 |
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