



Healing Body, Mind, and Spirit
with Pure Essential Oils Since 1995

www.naturesgift.com

Certificate of Analysis: Arnica Flower CO₂, *Arnica montana*, organic flowers from Bosnia and Herzegovina, extracted in Germany.

Batch No: GE-851102

Lab No: 18607

Type No: 043.007, 4% Sesquiterpene lactones, DE-ÖKO-013

Production: April 2015 Retest: April 2017

D/E Ratio: 8,7 - 10,0 kg raw material yield 1 kg product.

Sensory Check

| feature | reference | result |
|-------------|--|--------|
| Appearance: | Dark brown, at room temperature viscous liquid | meets |
| Odor: | characteristic | meets |

Analytical Check

| feature | method | limits | value/unit |
|--|--------------------------------------|-----------|----------------------------|
| Content of essential oil | 21.006.01, Distillation, gravimetric | 0,4 - 0,9 | 0,67 % (g/ 100g) |
| Triterpenediol Esters (calc. as Faradiol) | 21.041.04, HPLC | 3 - 7 | 5,0 % |
| Helenalin | 21.149.01, HPLC | < 0,02 | 0,0031 % |
| 11 alpha,13-Dihydrohelenalin | 21.149.01, HPLC | n.s. | 0,07 % |
| Sum of Helenalin Esters | 21.149.01, HPLC | n.s. | 3,2 % |
| Sum of Dihydrohelenalin Esters | 21.149.01, HPLC | n.s. | 0,76 % |
| Sum of Sesquiterpene lactones | 21.149.01, HPLC | 3,5 - 4,5 | 4,0 % |
| Sum of Sesquiterpen lactones (expressed as Dihydrohelenalin tiglate) | Ph. Eur. | n.s. | 4,5 % |
| Peroxide Value | 21.015.02, DGF, Wheeler | < 10 | 5,6 meq O ₂ /kg |

n.s. = not specified n.d. = not detected