

## CERTIFICATE OF ANALYSIS

Conventional essential oil of Cardamom from Guatemala  
100% pure and natural

Botanical name : *Elletaria cardamomum*  
Commercial name : Cardamom  
Batch number : 1700899  
Geographical origin : Guatemala

Physical and chemical data :

|                           | Standards                     | Results of analysis |
|---------------------------|-------------------------------|---------------------|
| Appearance                | fluid liquid                  | Conform             |
| Colour                    | colorless to pale yellow      | Conform             |
| Odour                     | characteristic, strong, spicy | Conform             |
| Specific gravity at 20° C | 0.915 to 0.936                | 0.917               |
| Refractive index at 20° C | 1.462 to 1.468                | 1.4630              |
| Optical rotation at 20° C | +22° to +41°                  | + 26.0°             |
| Flash point               | +58°C                         |                     |

Table of components :

| Components               | Contents |
|--------------------------|----------|
| Sabinene                 | 4.98%    |
| D-Limonene               | 1.83%    |
| Cinéole-1,8 : eucalyptol | 33.07%   |
| γ-terpinène              | 0.60%    |
| Acétate de linalyle      | 5.22%    |
| Acétate de terpinyle     | 41.25%   |
| Trans-nerolidol          | 0.88%    |
| TOTAL                    | 87.83%   |