



Bio synthetic relationship of terpenes and cineole

Bio Bute was developed using revolutionary new blending technology which captures the bio synthetic relationship between certain terpenes and associated cineole when blended in specific ratios in the presence of a circulatory synergist, such as Vanilla. (*Triple Maturation*™)

Terpenes and Cineole each exhibit both analgesic and anti-inflammatory properties in their own right, as can be seen in the vast array of clinical trials carried out on these individual components, examples of which are available on request.

The success of the Bio Bute formulation can be highly attributed to the *Maturation Process* which was developed by the products inventor, in which the combining of the 2 essential oils phases, in staged ratios, leads to an increase in the anti inflammatory aspects of the terpenes and cineole.

Coupled with this research was the premise of using a base oil rich in Oleocanthal, a compound known to provide anti-inflammatory properties similar to ibuprofen. Oleocanthal in olive oil was identified by Busch and co - workers at unilver Research and Development, Vlaardingen in The Netherlands. Further studies at the Monell Chemical Senses Centre and at Firmenich Inc., has reached the same conclusion. While initial indications suggest that the benefit of oleocanthal can be derived only from ingestion of large quantities of high quality olive oil, it is believed the Triple Maturation process has bonded the enantiomers of oleocanthal to the stimulatory synergist in the Vanilla, enabling uptake via the blood stream, providing obvious subsequent benefit.

Much of this work is held strictly under trade secret confidentiality and as such the intricacies of the data are not available for public viewing; however ongoing research by The Elmore Oil Company into the capacity of *Triple Maturation* to activate and strengthen terpene bonds will eventually assist us to patent the methodology and make the process more transparent.

Clinical references:

Analgesic and anti-inflammatory effects of essential oils of Eucalyptus Silva J., Abebe W., Sousa S.M., Duarte V.G., Machado M.I.L., and Matos F.J.A (2003) Journal of Ethnopharmacology, Vol 89:2-3 p.277:283

Anti-inflammatory activity of Tea Tree Oil Finlay-Jones J., Hart P., Riley T., Carson C., RIRDC Publication No 01/10

Synthesis and Assignment of Absolute Configuration of (-) Oleocanthal Amos B Smith, III, *Qiang Han, Paul A.S. Breslin and Gary K. Beauchamp

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