The octanol-water partition coefficient of the compounds was determined with EPISUITE 4. For each constituent, structural alerts for various relevant toxicity endpoints were evaluated with DEREK.

### RESULTS

1. Table 1 shows the various CED evolved from the different regions of the world together with the corresponding level of active constituents.

2. Table 2 depicts the chemical constituents with highest concentrations in CED with their Cramer toxicity class and default dermal absorption values.

3. None of the Cramer Class III compounds had any structural alerts for mutagenicity or carcinogenicity. Structural alerts for reproductive or developmental toxicity were found in the Cramer Class II compounds.

4. The plant source from Greece contains the lowest level (64%) of Cramer Class II compounds in its composition, but calculating using an application rate of 6.5% gram/day and an absorption rate of 40% allows for a use level of about 0.056% in a body lotion. The calculation is as follows:

   Let U be the maximum use level,
   
   \[ U = \frac{180 \mu g/day \times 90\% \times 40\%}{8.0 g/day} = 180 \mu g/day \]

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