The choice for practitioners

To uphold our industry-leading reputation for quality and results, MediHerb tests various products available to U.S. practitioners to ensure we are the brand meeting and exceeding your expectations with every bottle you purchase.

MediHerb’s Echinacea extract defines quality in terms of potency and levels of the active constituents, alkylamides.

Noteworthy Facts

- **Alkylamides** are the clinically relevant active constituents of Echinacea and the major markers of quality and activity.\(^1\)
- **2-ene alkylamides**
  - occur in *Echinacea angustifolia* but barely or not at all in *Echinacea purpurea*
  - protect the 2,4-diene alkylamides against degradation by cytochrome P450 (CYP) enzymes and thus improve the bioavailability of these important bioactive alkylamides\(^2\)
  - are an important measure of quality
- **2,4 diene alkylamides**
  - occur in both Echinacea species but are rapidly degraded by hepatic CYP enzymes unless protected by 2-ene alkylamides from *E. angustifolia*
  - are immune modulating

**Echinacea Solid Dose Product Comparison**

MediHerb Echinacea products are labeled with their total alkylamide content. The testing below reports the alkylamide content of MediHerb Echinacea Premium and nine other U.S. Echinacea products.

Note that most of the other Echinacea products do not make claims of alkylamide content. Through research, MediHerb has determined alkylamides are important constituents of Echinacea.

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Tablet Dosage Comparison

The table below shows the amount of tablets required to equal the alkylamides in one Echinacea Premium tablet.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.4</td>
<td>5</td>
<td>9</td>
<td>18</td>
<td>22</td>
<td>22</td>
<td>63</td>
<td>159</td>
<td>341</td>
</tr>
</tbody>
</table>

Echinacea Liquid Extract Product Comparison

Liquid Dosage Comparison

The table below shows the amount of extract required to equal the alkylamides in one 5 mL daily dose of Echinacea Premium 1:2.

<table>
<thead>
<tr>
<th>MediHerb Echinacea Premium 1:2</th>
<th>Product A</th>
<th>Product B</th>
<th>Product C</th>
<th>Product D</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mL</td>
<td>32 mL</td>
<td>41 mL</td>
<td>75 mL</td>
<td>562 mL</td>
</tr>
</tbody>
</table>