Alfalfa

The alfalfa plant (Medicago sativa Linn.) is grown for its unique blend of protein, B vitamins, and minerals. It is a perennial flowering legume widely grown across the world. The sprouts and whole plant material can be used to deliver essential nutrients and phytoactive compounds.

Phytoactives

Flavones

Promote antioxidant, antitumor, antiviral, and anti-inflammatory activity

Adenosine

Apigenin

Luteolin

Chlorophyll

Green pigment in plants with potential anti-inflammatory, antioxidant, and anti-bacterial activity

Saponins

Support the immune system and promote healthy cholesterol and blood glucose levels

Bayogenin

Foumononetin

Hederagenin

Medicagenic Acid

Soyasapogenol A

Soyasapogenol B

Soyasapogenol E

Soyasapogenol I

Zahnic Acid

What is the Whole Food Matrix?

Supports balance immune modulation for healthy inflammation response.

Supports the gut microbiome and a healthy metabolic fingerprint of the gut.

Effective and adaptive repairable farming techniques delivers nutrient dense vaccine of phytochemicals and help balance healthy lifestyles.

Increased intake of vegetables and fruits in whole food nutrition influences individual epigenetic expression of our health potential.

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Gallic Acid Equivalence

What is GAE?
GAE, or “gallic acid equivalence,” indicates levels of important phytoactives available in the plant and extracts. GAE is derived by comparing to the gallic acid reference standard, a simple phenolic substance. Studies have shown that phytoactives in plants contribute to their beneficial effect on development of chronic diseases.


References

Total Phenolic Concentration

<table>
<thead>
<tr>
<th></th>
<th>Total Phenolic as GAE (mg/g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa Juice Extract*</td>
<td>28.65</td>
</tr>
<tr>
<td>Dark Chocolate*</td>
<td>18.60</td>
</tr>
<tr>
<td>Walnut*</td>
<td>15.75</td>
</tr>
<tr>
<td>Pistachio*</td>
<td>14.20</td>
</tr>
<tr>
<td>Pecan*</td>
<td>12.84</td>
</tr>
<tr>
<td>Prunes*</td>
<td>11.95</td>
</tr>
<tr>
<td>Raisins*</td>
<td>10.65</td>
</tr>
</tbody>
</table>

Key Nutrients

Phenolic extracts incorporated in enzymes that metabolize macromolecules, helps protect mitochondria from oxidation and forms both collagen and cartilage.

Biotin

A necessary energy for metabolism, histone modification, gene regulation, and signal signaling.

Riboflavin

Water-soluble vitamin important for metabolic production, cell function, metabolism, and growth/development.

Copper

Essential mineral required for proper usage of iron in the body, neurotransmitters, and maturation of connective tissues.

Pantothenic Acid

Essential vitamin for energy metabolism, enzyme activation, signal transduction, and biosynthesis of fats and cholesterol.

Other Nutrients

Magnesium

Zinc

Calcium

Selenium

Potassium

Phosphorus

Iron

Choline

Thiamin (Vitamin B1)

Fiber

Riboflavin (Vitamin B2)

Folate (Vitamin B9)

Pantothenic Acid

Lipids

Nicacin (Vitamin B3)

Carbohydrate

Niacin (Vitamin B3)

Biotin

Riboflavin

Pantothenic Acid

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