**FUCOMAX® FOR YOUR GASTROINTESTINAL HEALTH**

FucMax® is a naturally occurring fucoidan extracted from three different sea plants:

- *Undaria pinnatifida* (HARVEY) SURINGAR (Alga wakamè)
- *Laminaria saccharina* (L.) LAMOUROUX (Alga Kombu) - Syn: *Laminaria japonica*
- *Cladosiphon okamuranus* (Okinawa mozuku)

FucMax® is produced by state-of-the-art and proprietary technologies which ensure the highest levels of purity (7-85%), the lowest levels of heavy metals and a very low iodine content (about 100 ppm).

- Fucoidans (other common names are Fucoidin or Fucan) are complex polysaccharides found in many species of brown seaweed.
- Fucoidans are polymers of L-fucose mainly linked with $\alpha(1 \to 2)$ and $\alpha(1 \to 4)$ bonds. They can be made of several thousand fucose units with a molecular weight around 200,000.
- Fucoidans are bioactive carbohydrate compounds, classified as dietary fiber due to an apparent lack of absorption in similar manners as Beta-glucans or Ginseng polysaccharides.
- Fucoidans have a high solubility in water and form viscus solutions.

**PRODUCT RANGE AND SPECIFICATIONS**

<table>
<thead>
<tr>
<th>BRAND AND PRODUCT NAME</th>
<th>BOTANICAL ORIGIN</th>
<th>ASSAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK FucoMax®- Fucoidan</td>
<td>Laminaria japonica J.E. Areschoug</td>
<td>70% of fucoidan by UV</td>
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<tr>
<td>HK FucoMax®- Fucoidan</td>
<td>Undaria pinnatifida Harvey (Wakame Algae)</td>
<td>75% of fucoidan by UV</td>
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<tr>
<td>HK FucoMax®- Fucoidan</td>
<td>Cladosiphon okamuranus (Okinawa mozuku)</td>
<td>85% of fucoidan by UV</td>
</tr>
</tbody>
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**RECOMMENDED USE AND DOSE**

500 – 2000 mg per day of FucoMax® taken as a dietary supplement

**7 MECHANISM OF ACTION**

- Inhibits ethanol-induced intestinal DNA damage
- Inhibits protein decomposition by gastrin
- Inhibits lipo-polysaccharide-induced interleukin IL-6 synthesis
- Up-modulated production of mucosal repair factor – NO
- Inhibits synthesis of TNF-$\alpha$ and IFN-$\gamma$ (proinflammatory and tumor cytokines)
- Promotes the stabilization of mucosal repair factors bFGF
- Inhibits the combination of *H. pylori* with gastrointestinal mucosa

Ixwari, H.-J., Kim, L.-H., Nam, T.-J. Advances in Food and Nutrition Research 2011, 64, 143-161

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