

# Brewster Brand Citrus Bioflavonoids



At Ingredients by Nature our forward-thinking ingredient innovations are rooted in 80 years of manufacturing experience. You first knew us as Brewster Foods along with our strategic partner Syntech International. In the 1950s Brewster led and defined the emerging dietary supplement sector. Today, we honor that heritage with our Brewster Brand Citrus Bioflavonoids.

# **Brewster Brand Citrus Bioflavonoids**

### Leader in bioflavonoid extracts

Brewster brand bioflavonoids from Ingredients by Nature (IBN) is the leading source for citrus-derived ingredients. Brewster has been pioneering the bioflavonoids category since 1950. Here at IBN we specialize in custom manufactured citrus bioflavonoid formulations.

## Broadest spectrum bioflavonoid profile on the market

Brewster Bioflavonoids provide the broadest bioflavonoid profile available. We draw from multiple citrus sources: orange, lemon, lime, tangerine, and grapefruit. Each contributes its own bioflavonoid profile. Most other citrus bioflavonoid complexes available in the market are extracted solely from orange.

Decades ago, Brewster Nutrition began exploring citrus extracts standardization. We carved a niche in taking citrus apart and putting it back together. Now we provide the standardized bioflavonoid ingredients that your brand requires—for consistent effects and customer loyalty.

### Bioflavonoid benefits

Citrus bioflavonoids convey unique benefits on their own and, of course, act as vital accessory nutrients with vitamin C.

### Systemic Antioxidant Support\*

- Promote vascular integrity, especially when paired with vitamin C\*
- Help maintain healthy cognition\*

#### Metabolic Support\*

- Promote balanced lipid metabolism in the liver\*
- Help maintain healthy cholesterol levels\*

#### Balanced Immune Cell Activity\*

- Encourage balanced (not over-active) immune response in the presence of seasonal challenges\*
- Support respiratory health\*
- Promote joint health and comfort\*

#### **Expanded Applications**

- Versatile powder for single-ingredient capsules and blends
- Suspendable for beverages
- Useful as natural preservative in food and beverages
- Granulated compression for tablets

# Superior ORAC values and consistent NF-kB activity.\*

Our citrus bioflavonoids are formulated to total ORAC FN value, measuring specific antioxidant activity against the most influential free radicals naturally found in the human body: hydroxyl, peroxyl, peroxynitrite, singlet oxygen, and superoxide anion.

Brewster Bioflavonoids are also backed by NF-kB values. Bioflavonoid influence on immune cell function is likely key to the observed effects on respiratory health and balanced immune response.\*

### The clear choice

Brewster Bioflavonoids are exclusively manufactured for IBN. Our parent company has provided made-to-order customized formulations since 1950. We defined the citrus extract industry, and we put our customer's needs first. Let us help you formulate your next successful product.

# Your source for all citrus-derived ingredients

In addition to Brewster Bioflavonoids, IBN provides high potency individual citrus extracts, citrus powders, citrus pectins, fibers and powder processing services. We are the world leader in extracting trace flavonoids and standardizing them for custom formulations. Your citrus bioflavonoid profile can be uniquely standardized with the ratios that work best for your advertised product benefit.



For more info visit ingredientsbynature.com or email info@ingredientsbynature.com

5555 Brooks Street, Montclair, CA 91763 | PH: 909-230-6200

REFERENCES
Assini JM, Mulvihill EE, Huff MW. "Citrus flavonoids and lipid metabolism." Curr Opin Lipidol 2013 Feb;24(1):34-40.

Chanet A. et. al. "Citrus flavanones: what is their role in cardiovascular protection?" J Agric Food Chem. 2012 Sep 12;60(36):8809-22.

Kim SH, Kim BK, Lee YC. "Antiasthmatic effects of hesperidin, a potential Th2 cytokine antagonist, in a mouse model of allergic asthma." Mediators Inflamm. 2011;2011:485402. doi: 10.1155/2011/485402. Epub 2011 May 4.

Li C, Schluesener H. "Health-promoting effects of the citrus flavanone hesperidin." Crit Rev Food Sci Nutr. 2017 Feb 11;57(3):613-631.

Parhiz H. et. al. "Antioxidant and anti-inflammatory properties of the citrus flavonoids hesperidin and hesperetin: an updated review of their molecular mechanisms and experimental models Phytotherapy Research. 2015 Mar;29(3):323-31.

Tejada S, et. al. "Potential anti-inflammatory effects of hesperidin from the genus Citrus." Curr Med Chem. 2017 Jul 18. doi: 10.2174/0929867324666170718104412. [Epub ahead of print]













