



Choosing the Best Immune-boosting **Elderberry Ingredient**

ElderMune® – An Innovative New Approach to Elderberry

and purity -**ElderMune®** is Bursting with Benefits

An Exceptional Elderberry Ingredient ElderMune® is a synergistic combination



Sunfiber®, a soluble prebiotic fiber for enhanced digestibility. ElderMune® boasts an impressive 65:1 ratio 65 g of pressed elderberries → 1g of elderberry juice concentrate

The Sunfiber® in ElderMune® >> Helps replace the natural elderberry fiber lost during juicing

>> Increases the antioxidant potential of the elderberry

anthocyanins and polyphenols and helps with their absorption^{1,2}

- >> Eliminates the need for unwanted maltodextrin found in
- most elderberry products
- The Elderberry Category is Filled with Opportunity

Functional Beverages in Demand

168.9% \$78 100% Shelf stable Sales growth of functional Elderberry products Sales of

in the US, reaching

\$265.8 million in

beverage growth since April 2020

supplement channel Over 21% of organic consumers are looking for Nutrition Meets Convenience, making ElderMune® the ideal addition to your RTD beverage

& beverages in 2020

functional foods

ElderMune® is the ideal beverage immune ingredient >> ElderMune® is a purple-red powder that has a natural berry taste

>> The perfect immune-supporting and overall wellness ingredient

>> Highly soluble in water

- ElderMune® Elderberry Juice Concentrate 65:1
- immunomodulatory and antioxidant effects >> ElderMune® specifically has been studied for its



immunomodulatory effects and has been shown to inhibit cytokine production in a beneficial way >> Additionally, the Sunfiber® has been shown to work

synergistically with the elderberry juice concentrate, demonstrating increased immunomodulatory inhibition and increased antioxidant potential

For immune support, a dose between 100 mg and 1,000 mg is recommended

L-malic acid (for pH adjustment) were prepared and subjected to HPP. The following was observed: >> The levels of anthocyanins increased after HPP >> The levels of anthocyanins increased

Case Study:

HPP (High-Pressure Processing) Application

>> HPP is suitable for maintaining the anthocyanin content of the solution >> The increase in anthocyanin content during processing may be due to both the high pressure

substantially with L-malic acid

Conclusions:

ElderMune® beverages with and without NuMalic®

in solution This makes High Pressure Processing an

excellent option for Beverages containing ElderMune®

and L-malic acid helping to release additional

anthocyanins physically bound in the elderberry

juice concentrate, thus increasing their availability

Various solubility parameters have been determined for RTD and powdered beverage applications ✓ ElderMune® imparts a natural purple-reddish hue-Suitable for natural coloring purposes ✓ ElderMune® is highly palatable A light, natural berry taste makes it easy

✓ ElderMune® is highly soluble

to incorporate into a wide array of

applications and flavor systems

And at a low functional dose of only 100 mg, ElderMune® provides for an immune support claim at a low cost per dose

ElderMune® contains a whole berry 65:1 juice

concentrate, leading the way in delivering

more fruit (equivalent) per gram than other

elderberry ingredients.

Formulate with Ease

65 grams of 1 gram of Elderberry Juice Concentrate **Elderberries** ElderMune® is a JUICE CONCENTRATE which contains more active phytonutrients than your typical concentrate

Abundant Advantages

Versatility ElderMune® works well in: Powders + Stick Packs + RTDs

Recommended dose: 100 - 1000 mg/serving

Can be combined with probiotics for total microbiome support

Availability



VEGAN

ElderMune® is free of:

For more information contact:

ElderMune® is made from quality Haschberg variety elderberries,

obtained from reputable sources and is:

USDA ORGANIC



Maltodextrin

Ingredients Matter.

Prunacin and

Holocalin

Purple

dyes

Tel: 1-203-372-8877

https://pubmed.ncbi.nlm.nih.gov/29388158/

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6139254/

https://www.hindawi.com/journals/jnme/2018/7497260/

https://www.nrcresearchpress.com/doi/pdf/10.4141/P05-139

https://lpi.oregonstate.edu/mic/dietary-factors/phytochemicals/flavonoids

https://scholarworks.uark.edu/cgi/viewcontent.cgi?article=4167&context=etd

sales@nutriscienceusa.com ElderMune® and Sunfiber® are supplied as part of an exclusive portfolio of proprietary ingredients

from NutriScience Innovations LLC. ElderMune® is a registered trademark of Innovative Natural

Solutions, LLC (INS Farms). Sunfiber® is a registered trademark of Taiyo International, Inc. REFERENCES

https://pubs.rsc.org/en/content/articlelanding/2019/fo/c8fo01997e#!divAbstract

1 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3052441/

2 https://academic.oup.com/ajcn/article/79/5/727/4690182

Nutrition Business Journal, Immune Health Special Report 2020.

https://www.frontiersin.org/articles/10.3389/fnut.2018.00087/full

SPINS, 52 Weeks ending April 2021

GLUTEN

Solvents