



News Release

Ashland introduces patent pending Nutrapress™ chw organic chewable base for nutraceuticals

New product to be featured in interactive innovation zones within company booth 3755 during SupplySide West tradeshow

Wilmington, Del., October 31, 2022 - Ashland today introduced patent-pending Nutrapress™ chw organic chewable base designed for chewable dietary supplements during the SupplySide West tradeshow in Las Vegas. The base is an innovative, complete system for supplements that contains an organic binder, sweetener, flow aid, and lubricant.

Available in sugar and sugar-free versions, both chewable bases comply with FDA, European, Canadian and Korean organic standards/requirements. Both versions are allergen-free, xylitol free, and vegan and vegetarian suitable. Nutrapress™ chw organic chewable base has good powder flowability and compressibility which makes it ideal for the direct compression of chewable tablets.

Ashland will also showcase the following innovations for nutraceutical manufacturing during the show:

Nutrapress™ bnd organic binder

Nutrapress™ bnd organic binder is an organic, multi-functional tablet binder designed for creating organic dietary supplements in tablet form. The innovative product is engineered to enhance tablet robustness, disintegration and powder flow for direct compression tablet manufacturing.

Soy-free GPM™ fermented nutrients

Soy-free GPM™ nutrients have a slow, sustained release and are gentle on the stomach. These nutrients have been shown to be more bioavailable versus the comparable USP nutrients. The resulting product is easily digested and highly active. Nutrients are available in organic, non-GMO*, soy-free and gluten free. They are also Kosher, and Halal certified.

Aloe vera

For more than 20 years, Ashland has been an industry leader in producing the highest quality Aloe vera, including: inner leaf, decolorized leaf, liquid concentrates and powders. To ensure a quality product, Ashland owns the farms and processes in-house. We practice sustainable, organic farming methods and invest in local communities.

N-dur-xr™ drink technology

Ashland N-dur xr™ technology is a patent-pending delivery system that releases nutrients over a six-hour period. When used in application with caffeine for example, N-dur xr™ drink technology extends the release of the caffeine for up to six hours. Because of this extended release, some of the potential negative side effects often associated with a single large dose of caffeine, such as jitters, stomach upset, or headaches may be potentially reduced or minimized over time. N-dur xr™ drink technology targets the sports-nutrition or e-gaming consumer.

custom formulations

From concept development to commercial-scale production, Ashland partners with customers to develop nutraceutical solutions tailored to meet specific needs. We can produce small batches for

evaluating prototypes all the way to commercial production. Ashland has a wide range of processing capabilities and scale-up capacities.

Coatings and excipients for nutraceuticals

Tablet breakage and large tablet size have long been challenges for vitamins and dietary supplements. **Klucel nutra™ modified cellulose** can help achieve excellent tablet hardness and low friability. This reduces tablet chipping during the manufacturing process and tablet damage during shipping.

Ashland has also recently introduced **Aquarius™ titanium dioxide-free coating system** for use in nutraceuticals. Ashland's line of TiO₂-free coatings has excellent opacity and good color brightness, and the line includes white, color and clear coating options.

Benecel™ xrf hpmc has been optimized for controlled-release matrix formulations providing robust products and consistent nutrient release, especially for high speed tableting operations.

Visit Ashland.com/ssw22 for more information on these or other products or to request a product sample.

About Ashland

Ashland Inc. (NYSE: ASH) is a global additives and specialty ingredients company with a conscious and proactive mindset for environment, social and governance (ESG). The company serves customers in a wide range of consumer and industrial markets, including architectural coatings, automotive, construction, energy, food and beverage, nutraceuticals, personal care and pharmaceutical. Approximately 3,900 passionate, tenacious solvers – from renowned scientists and research chemists to talented engineers and plant operators – thrive on developing practical, innovative and elegant solutions to complex problems for customers in more than 100 countries. Visit ashland.com and ashland.com/ESG to learn more.

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