

N-Dur XR™ extended-release system for powder beverages

Conventional delivery systems require frequent dosing. Extended-release delivery maintains optimal nutrient levels in the body, which can help improve physiological response.

There are lots of extended-release tablets and capsules but there are few, if any, options for providing extended release for powdered drink applications.

N-Dur XR™ drink technology uses a proprietary process and patented ingredients to provide controlled release of nutrients that can be formulated into shakes and powered beverages. The extended-release mechanism is robust and designed to release the nutrients only after dispersion. Dissolution profiles demonstrate the nutrients are released for up to 6 hours. It is unique and super convenient!

N-Dur XR™ technology is not sold by itself, it is sold in only in application, the platform is versatile and can be found in some end applications such as:

Sleep aid drink... N-Dur XR™ Melatonin

Sports beverages... N-Dur XR™ EAA

Energy ... N-Dur XR™ Caffeine

As an example, conventional caffeinated beverages typically achieve efficacy by delivering a high, initial single load of caffeine, this approach can result in undesirable side effects such jitters or headaches. As an alternative, N-Dur XR™ Caffeine maintains optimal caffeine levels in the body, provides an immediate energy boost and continue release for us 6 hours. This minimizes potential side effects and provides consistent energy.

Ashland's caffeine powder made with extended-release N-Dur XR™ technology is a naturally sourced caffeine from green coffee beans. Natural caffeine has been described as having a smoother and more beneficial physiological effect.

All these options were designed for dry powder applications but may also be used in capsules, sachets and stick pack as well.

Contact our solvers to learn more about the benefits of our N-Dur XR™ technology and explore our solutions to your developments!

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