BACILLUS SUBTILIS AB22™: DIGESTING PROTEINS SO YOU CAN ABSORB THEM

The "Protein Paradox": Why More Isn't Always Better

In the world of high-performance nutrition, we've been told a lie: that *you are what you eat*. The truth is much more biological: y*ou are what you absorb*. Whether you are fueling with plant-based blends, premium whey, or nutrient-dense organ meats, your body faces a daunting task. Proteins are complex, tightly folded structures. If your gut can't "unlock" these structures into free-form amino acids, that expensive protein doesn't go to your muscles or your metabolism - it just goes to waste.

Enter *Bacillus subtilis* AB22™. It isn't just a probiotic; it is a specialized enzymatic powerhouse designed to act as your gut's personal "cleanup and construction crew."

Digestive & Gut Health

Protein Digestion

Performance Without the Bloat

When proteins aren't digested properly, they ferment in the lower gut, leading to the dreaded "protein bloat," gas, and discomfort. *Bacillus subtilis* AB22™ eases the problem at the source.

By producing a robust array of protease enzymes, *Bacillus subtilis* AB22™ ensures that whether it's a pea-protein shake or a whey isolate, your body is actually getting what you paid for.

Don't just eat your protein. Absorb it. Amplify it with AB22™.

lisa@amplifiedingredients.com
www.AmplifiedIngredients.com

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Ingredients that Transform™

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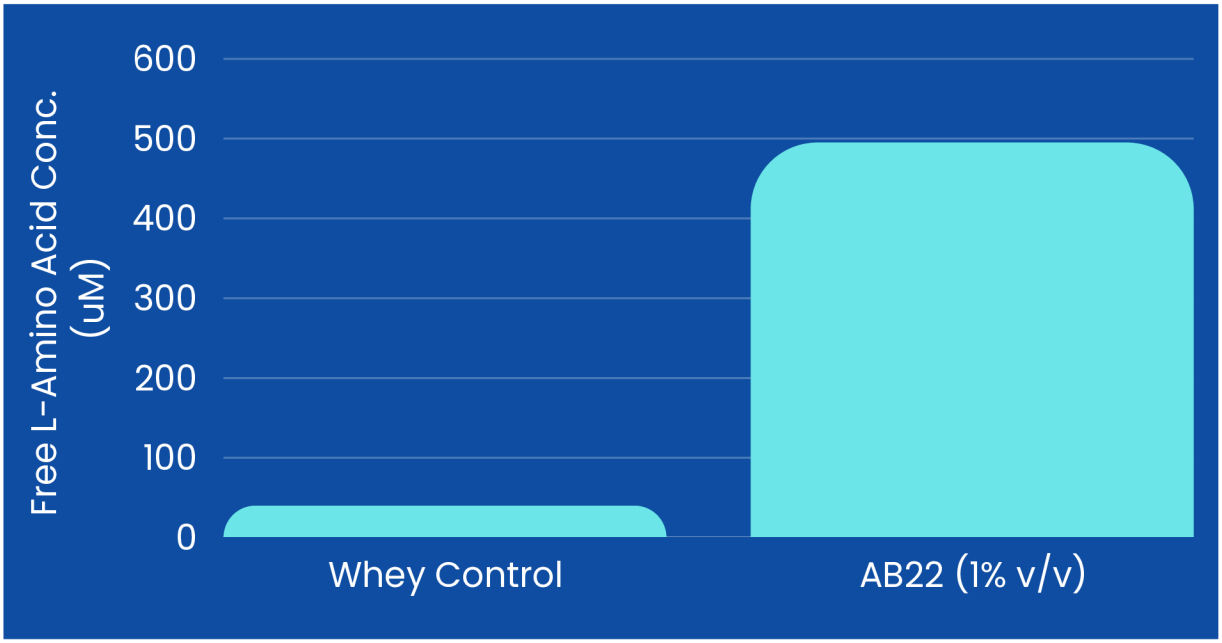
Making "The Gold Standard" Even Better: Whey Protein

Whey is the undisputed king of bioavailability—but even kings need a boost. To see if AB22™ could improve upon "the best," we incubated it with a standard whey protein sample.

Using a cell-free supernatant of *Bacillus subtilis* AB22™, we observed a massive spike in free L-amino acid concentration compared to the whey control. This suggests that even for "fast-digesting" proteins, AB22™ accelerates the breakdown process, ensuring that the amino acid "payload" hits your bloodstream faster and more efficiently.

Whey Protein Breakdown in Single Amino Acids with *Bacillus subtilis* AB22™



Concentration of free amino acids found in samples incubated with *Bacillus subtilis* AB22™ cell-free supernatant. Supernatant was added at a 1% (v/v) concentration in each experiment, tested in triplicate.

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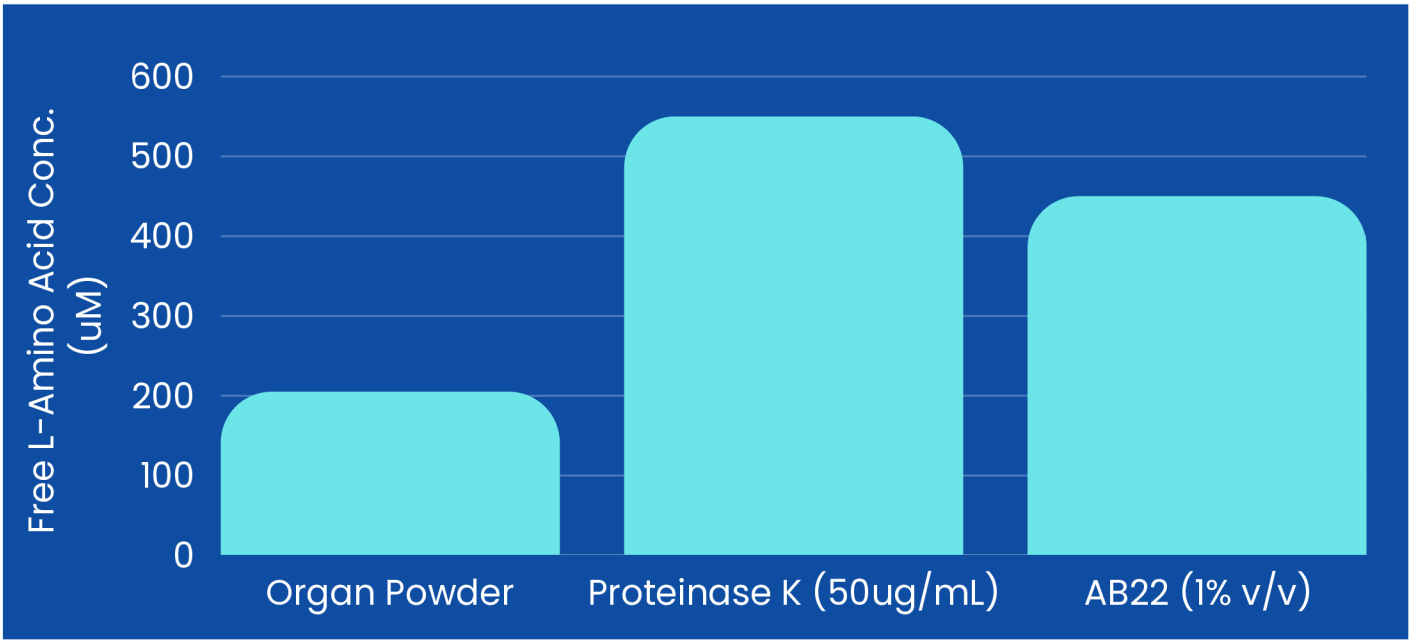
The Glandular Frontier: Unlocking Organ Superfoods

The "Ancestral" movement has brought liver, heart, and kidney powders back into the spotlight. These are the most nutrient-dense foods on the planet, but they are also incredibly dense and structurally complex.

We put *Bacillus subtilis* AB22™ to work on freeze-dried glandular powders. The results showed that AB22™ successfully "shredded" these dense tissues into bioavailable single amino acids.

The Result? AB22™ significantly outperformed the control, showing that it can take the most complex animal tissues and turn them into readily absorbable fuel. This is a game-changer for those seeking the deep nutrition of organ meats without the digestive heavy lifting.

Organ Protein Breakdown in Single Amino Acids with *Bacillus subtilis* AB22™



Concentration of free amino acids found in samples incubated with *Bacillus subtilis* AB22™ cell-free supernatant. Supernatant was added at a 1% (v/v) concentration in each experiment, tested in triplicate.

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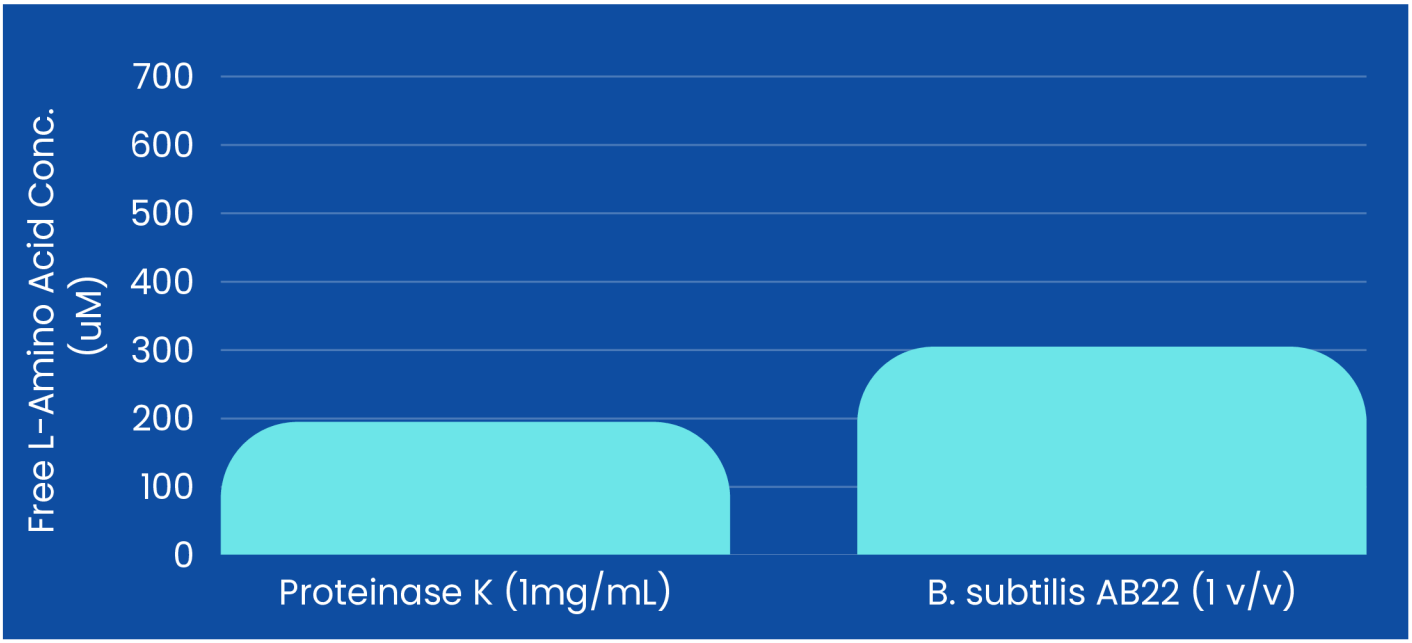
Shattering the Plant-Based Ceiling

Plant proteins (pea, soy, and wheat) are notorious for being "difficult." They are often wrapped in fibers and anti-nutrients that hinder digestion.

In our head-to-head assay, *Bacillus subtilis* AB22™ was tested against a complex Plant Protein Blend. The results weren't just good; they outperformed the industry-standard positive control, Proteinase K. AB22™ increased free amino acid concentration by an average of 313.17 µM, compared to only 192.22 µM for Proteinase K.

The Transformation: AB22™ displayed nearly 63% more effective at liberating amino acids than one of the most powerful enzymes used in laboratory settings.

Plant Protein Breakdown in Single Amino Acids with *Bacillus subtilis* AB22™



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