

SOY BEST® RESEARCH NEWS

04/06



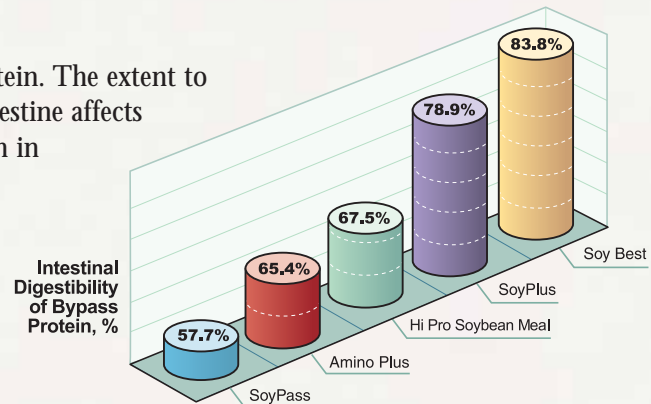
STILL THE MOST DIGESTIBLE

The scientists prove it again.

Scientists agree, new-process Soy Best with fresh soy gums is very digestible in the intestine — making it an excellent source of bypass protein in dairy rations.

Previous Research:

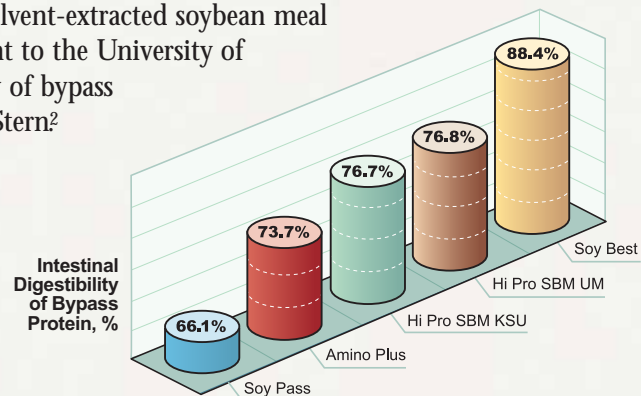
Most dairy rations need a source of bypass protein. The extent to which that bypass protein is digested in the intestine affects how much milk the cow will produce. Research in the *Journal of Dairy Science*¹ showed that Soy Best with fresh soy gums is more digestible than other products.



Journal of Dairy Science

New Research:

Samples of Soy Best, AminoPlus, SoyPass and solvent-extracted soybean meal were collected at Kansas State University and sent to the University of Minnesota and assayed for intestinal digestibility of bypass protein using the technique of Calsamiglia and Stern.² The lab included another sample of solvent-extracted soybean meal as control. Results showed Soy Best had greater intestinal digestibility than all the other products.



Kansas State University & University of Minnesota

¹J. Dairy Sci. 2005 Supplement 1, Abstract #86.

²J. Anim. Sci. 1995 73:1459-1465



“Intestinal digestibility is important. It tells you how much of the amino acids in the bypass protein go to make milk, as opposed to manure.”

– Dr. John Shirley, Professor Emeritus and Dairy Nutritionist, Kansas State University

More Milk or More Manure?

	Soy Best 2.2 lbs (1kg)	AminoPlus 2.2 lbs (1kg)
Crude Protein (CP):	42.0% [§]	45.0% [§]
Rumen Available Rate, % of CP: ^{§§}	32.3%	28.0%
Rumen Available Protein: ^{**}	→ 136 g	126 g
Bypass Rate, % of CP:	67.7%*	72.0% [†]
Bypass Protein:	284 g	324 g
Intestinal Protein Digestibility:	86.1% [‡]	69.5% [‡]
Metabolizable Protein:	→ 244 g	225 g
Fecal Protein:	40 g	→ 99 g

More Milk

More Manure

[§] Label guarantee value

^{§§}100 - Bypass Rate

^{**} Rumen-available protein supplies peptides and amino acids for use by rumen microflora. These microbes, in turn, pass to the lower gut and supply high-quality, metabolizable amino acids for milk production.

* Bypass protein value for any feed ingredient is not a fixed number and will vary with dry matter intake, rumen solids retention time, rumen pH and microbial population. Bypass protein values for Soy Best, as measured at the University of West Virginia and reported in the *Journal of Dairy Science* (2005, Vol. 83, Suppl. 1, Abstract #86, pg. 90) range from 62.1% to 73.3%. Even using the average of these values gives Soy Best the advantage in metabolizable protein for milk production, compared to best values reported by manufacturers of other products.

[†] Best value reported in manufacturer's literature

[‡] Average of values reported by University of Minnesota

More bypass protein. More milk.



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