



Optimal combination
for enhancing
animal health



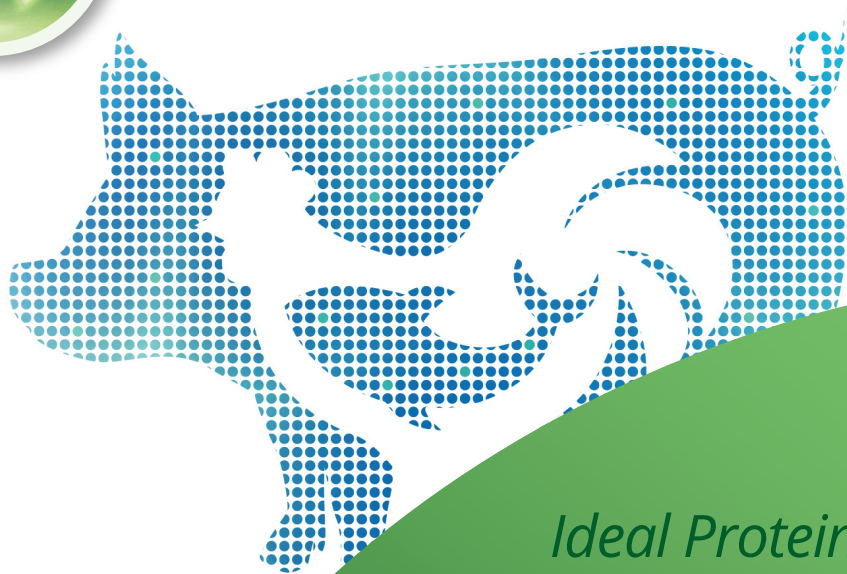
Secure protein
source alternative to
animal proteins



Provide extra
functionality



Economic and
high-efficiency
protein solution



*Ideal Protein Solution
Replacing Animal Proteins*

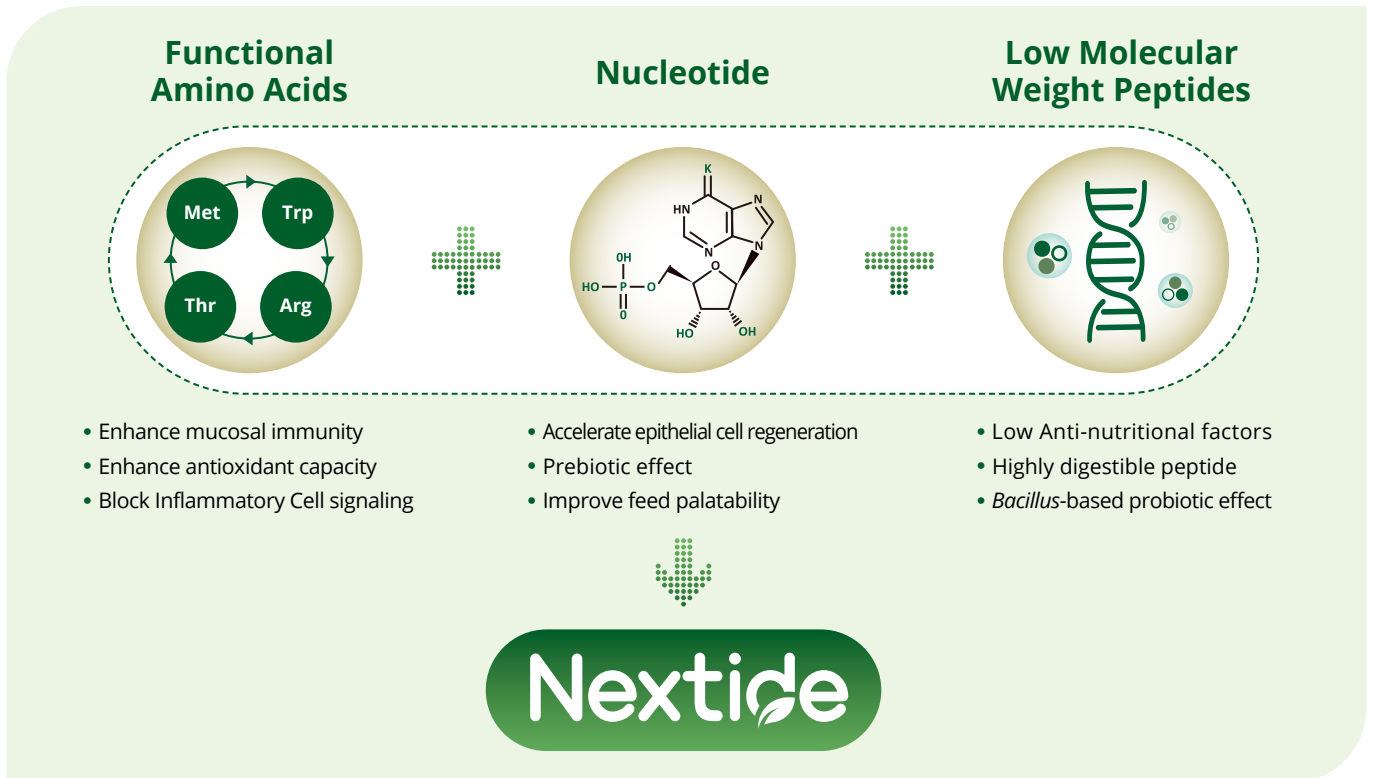
Nextide

Ideal Protein Solution Replacing Animal Proteins

Nextide

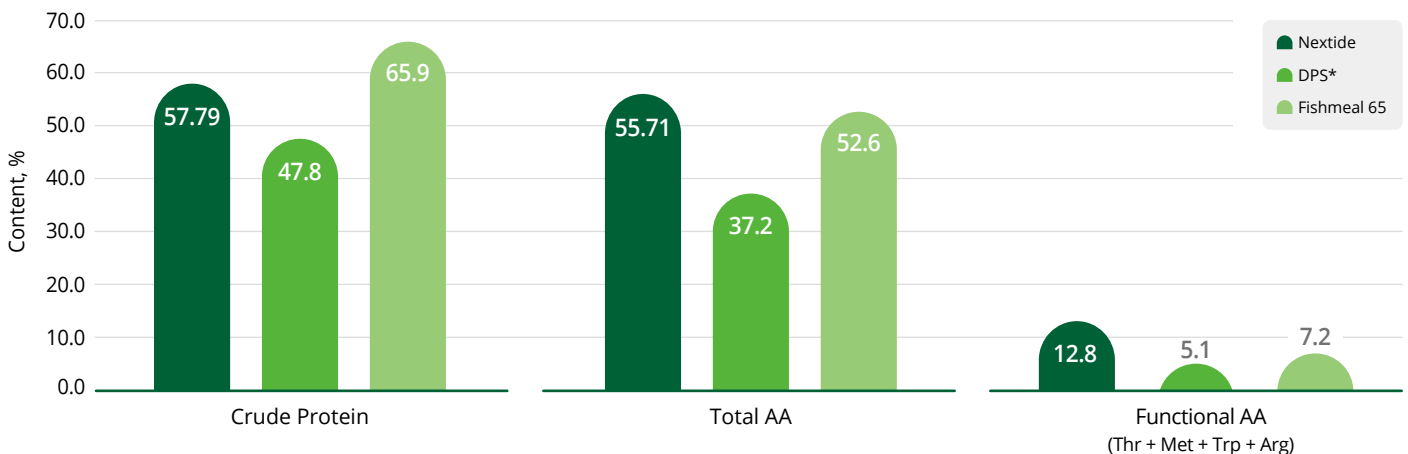
• Nextide is a cost-effective functional protein designed to replace premium animal proteins

CJ BIO has developed an optimal and synergistic combination that effectively and economically replace premium animal protein sources.



• Functionality compared to other protein sources

Nextide outperforms fishmeal and hydrolyzed porcine intestinal proteins (DPS) in available amino acids due to the absence of non-protein nitrogen. It also contains a higher concentration of immune-boosting functional amino acids, distinguishing it from fishmeal and DPS.



*Dried Porcine Soluble

• Main benefits - Animal trial results

Effects of Nextide on Growth Performance

Thai Nguyen Univ. of Agriculture & Forestry (TUAF), Vietnam, 2023

Nextide improved ADG by 11% and FCR by 9% compared to the animal protein supplemented diet (PC).

Test Condition

- 288 weaning pigs (28 days old)
- 6 TRT x 8 replicates x 6 pigs/pen
- Weaned pigs were fed for 5 weeks

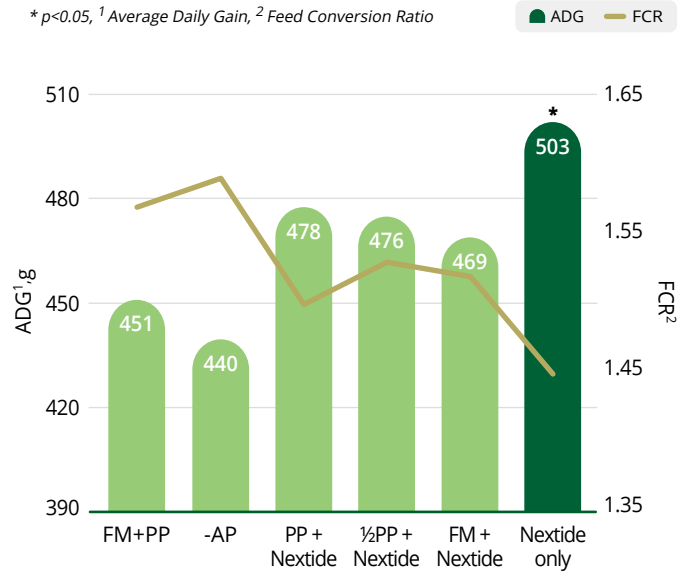
Treatment Group		Ingredient (%)		
		Fishmeal 65	Plasma P.	Nextide
PC	FM+PP	3	2	-
NC	-AP	-	-	-
T1	PP+Nextide	-	2	5
T2	½PP+Nextide	-	1	5
T3	FM+Nextide	3	-	5
T4	Nextide only	-	-	5

* All diets are AGP Free.

* All essential amino acids met the NRC, 2012 digestible amino acid profile criteria.

Growth Performance

* $p < 0.05$, ¹ Average Daily Gain, ² Feed Conversion Ratio



Amino Acid Digestibility of Nextide

Konkuk Univ., South Korea, 2023

Nextide exhibits superior ileal amino acid digestibility compared to soybean meal.

Test Condition

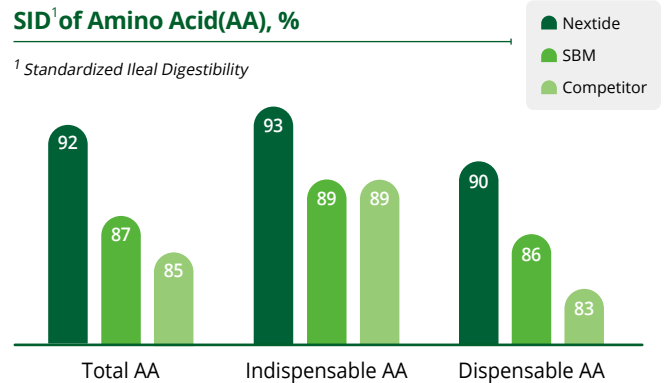
- 8 weaned pigs (Average weight 8.7kg) fitted with T-cannulas at the terminal ileum.

Treatment Group	Crude Protein (%)
Soybean meal(SBM)	48
Nextide	56
Competitor's FSBM*	50

* Lactobacillus-Fermented Soybean meal

SID¹ of Amino Acid(AA), %

¹ Standardized Ileal Digestibility



Economic Evaluation of Nextide

Gyeongsang National Univ., South Korea, 2023

Replacing premium animal proteins with Nextide reduced feed cost by 7% compared to the control group.

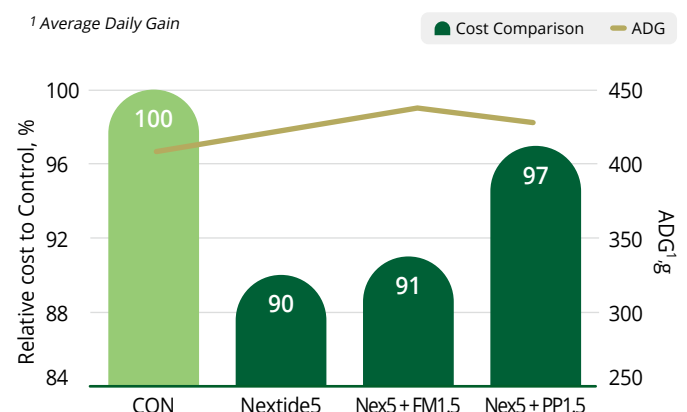
Test Condition

- 240 weanling pigs (24 days old)
- 4 TRT x 4 replicates x 15 pigs/pen
- Weaned pigs were fed for 5 weeks

Treatment Group	Description
PC	5% Fishmeal + 2% Plasma protein
Nextide5	5% Nextide
Nex5 + FM1.5	5% Nextide + 1.5% Fishmeal
Nex5 + PP1.5	5% Nextide + 1.5% Plasma Protein

Comparison of Feed Cost per Kg Body Weight Gain

¹ Average Daily Gain



Nextide

• CJ BIO's solution begins with a customer-centric approach

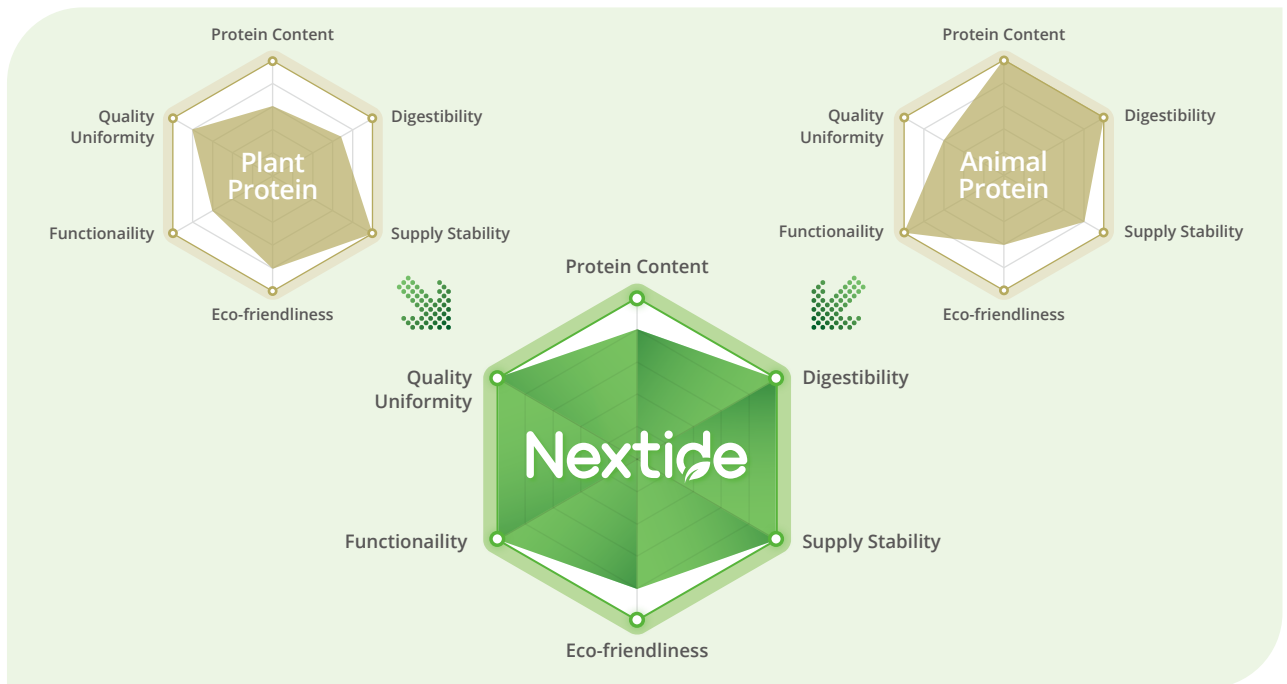
Step.1 Customer Needs Analysis

Recognizing customer needs through an understanding of market challenges.



Step.2 Providing Solutions to the Market

Developing an ideal protein source effectively replacing animal proteins.



Nextide offers a revolutionary solution that harmoniously balances the benefits of animal protein & plant-based protein providing a safe and cost-effective alternative to animal protein sources. Nextide also enhances feed safety, nutrient digestibility, and immune function in young and breeding animals.

Specification

Crude Protein	≥ 57.0%	Crude Fiber	≤ 5.0%	Energy values in Piglets
Moisture	≤ 10.0%	Crude Ash	≤ 8.0%	- Metabolizable Energy (ME) : 4,148 Kcal/kg
Crude Fat	≥ 0.2%	pH	≥ 6.8	- Net Energy (NE) : 2,751 Kcal/kg