

Grower & Finisher

Products & Programs

Provimi North America

10 Nutrition Way Brookville, OH 45309 800.392.8324 • 937.770.2400 www.provimi-na.com



Grow-Finish Research... another Provimi Difference!



High-Rise Finishing Research Facility

Provimi is a leader in the research and development of nutrition programs for the swine industry. Research has been focused on determining the amino acid and calorie requirements at each specific point on the growth curve for a wide variety of genetic lines. This extensive research effort has produced valuable nutritional information, which is incorporated into all Provimi feeding programs to allow animals to express their full genetic potential.

Provimi conducts grow-finish research in two 1000 head facilities located near Lewisburg, Ohio. The high-rise finishing research facility has a unique waste composting system which eliminates liquid manure storage and handling, and contains 48 test pens. The wean to finish barn contains 84 test pens allowing two trials to run simultaneously. Both facilities have automated electronic feeding systems which deliver experimental diets to individual pens. The systems allow different blends of two diets to be fed which increases the number of experimental diets that can be tested. Provimi also conducts large scale commercial research with cooperating producers in the midwest.

Producers have access to this nutritional technology by selecting a multi-phase feeding program that fits their operation, and then incorporating the proper grower and finisher base mix products available from Provimi, and affiliated Provimi manufacturers, in bag or bulk form.

All Provimi formulated base mixes for the grower or grow-finish period contain added crystalline lysine to

reduce the amount of soybean meal that needs to be added to the diets (this helps reduce nitrogen excretion). To reduce phosphorus use and excretion producers can choose to utilize Provimi base mixes containing phytase.









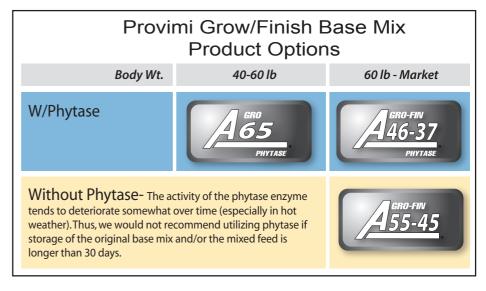
Provimi Swine Nutrition Team



Electronic Feed Delivery System

Some provimi Grow-Finish Nutrition Programs

The phytase enzyme helps to improve digestibility of naturally occurring phosphorus in feedstuffs. This addition spares inorganic phosphorus needed in the diet, which is normally added as dicalcium phosphate. Inorganic phosphorus sources are expensive, making phytase an attractive option. Provimi has offered phytase in its swine programs for many years, and we continue to better refine incorporation of this technology into practical feeding programs. Formulations for all Provimi grow-finish base mixes and complete feeds have recently been updated by Provimi nutritionists to reflect new technology and current economics.



In most cases, it will be cost effective to utilize the

phytase enzyme, with reduced phosphorus excretion as a benefit. However, there are certain cases where producers may elect to not use phytase. This could occur when a producer puts an added value on the phosphorus content of swine manure, or if the product containing phytase has to be stored for an extended period of time.

Nutritional Options for the Critical Grower Phase (40-60 lb body weight)



Complete Base Mix

Gro 65 PHYTASE is a complete base mix that provides a unique amino acid combination required to support rapid muscle development and maximize feed efficiency during the grower period when feed intake is relatively low and the potential for muscle deposition is extremely high. Crystalline amino acids are included at ratios that optimize amino acid content of the final diet and reduce the amount of soybean meal needed in the diet. Phytase is included to reduce the amount of phosphorus in the diet.

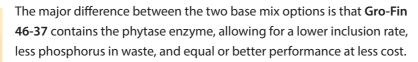


GroBooster is an add pac designed for use with Gro-Fin 55-45, Gro-Fin 46-37, or a Provimi formulated bulk base mix to provide an equivalent level of nutrition as Gro 65 Phytase. We work with our producers to select which option is best for their operation. GroBooster is used at a rate of 15 lb per ton in grower diets, and optimizes amino acid levels to support maximum muscle deposition and feed efficiency.

Nutritional Options for Grow-Finish Diets (60 lb - market weight)



Gro-Fin 55-45 and **Gro-Fin 46-37** include added crystalline lysine to improve lysine balance and lower the required soybean meal levels needed in finishing diets. Both provide vitamin and mineral fortification shown by Provimi research to support high levels of performance cost effectively.



Bulk Base Mixes that supply the levels of nutrition found in **Gro-Fin 55-45** and **Gro-Fin 46-37** are available from Provimi affiliated feed manufacturers.



Copper Zinc & Iron PMX is added to diets from 60-140 lb body weight to help support faster growth and better feed utilization cost effectively.



Lysine, %	1.23		1.08		0.98		0.87		0.76		0.69		0.65	
Wt. of Mixed Sex, lbs.	40-60*		60-100		100-135		135-180		180-215				215-mkt**	
Wt. of Gilts, lbs.	40-60*		60-100		100-140		140-190		190-230		230-mkt**			
Wt. of Barrows, Ibs.	40-60*		60-95		95-130		130-170		170-200				200-mkt**	
Corn, lbs.	1370	1379	1432	1441	1502	1511	1585	1594	1660	1668	1705	1708	1740	1743
SBM, lbs. (47.5%) a,b	560	560	510	510	440	440	360	360	290	290	250	255	215	220
Gro-Fin 55-45, lbs.	55		55		55		55		50		45		45	
Gro-Fin 46-37, lbs.		46		46		46		46		42		37		37
GroBooster, Ibs.	15	15												
Copper, Zinc & Iron PMX, lbs			3	3	3	3								
Total	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

6 Phase High Lean Mixing & Feeding Directions

Lysine, %

Corn, lbs.

Wt. of Mixed Sex, lbs.

Wt. of Gilts, lbs.

SBM, lbs. (47.5%) a,b

Gro-Fin 55-45, lbs.

Gro-Fin 46-37, lbs.

Copper, Zinc & Iron PMX, Ibs.

Wt. of Mixed Sex, lbs.

Wt. of Gilts, lbs.

Wt. of Barrows, lbs.

SBM, lbs. (47.5%) a,b

Gro-Fin 55-45. lbs.

Gro-Fin 46-37, lbs.

Copper, Zinc & Iron PMX, Ibs.

GroBooster, lbs.

Total

GroBooster, Ibs

Lysine, %

Corn. lbs.

Total

Wt. of Barrows, Ibs.

Diets NOT containing Phytase

1.08

60-100

60-100

60-95

1441

510

46

3

2000

1.02

60-135

60-140

60-130

1481

470

46

3

2000

1472

470

55

2000

1432

510

55

2000

0.98

100-150

100-150

95-140

1511

440

46

3

2000

0.84

135-190

140-200

130-180

1614

340

46

2000

Diets NOT containing Phytase

1605

340

55

2000

Diets NOT containing Phytase

1502

440

55

2000

5 Phase High Lean Mixing & Feeding Directions

1.23

40-60*

40-60*

40-60*

1379

560

46

15

2000

4 Phase High Lean Mixing & Feeding Directions

1.23

40-60*

40-60*

40-60*

1379

560

46

15

2000

1370

560

55

15

2000

1370

560

55

15

2000

Diets containing Phytase

0.82

150-210

150-220

140-190

1634

320

46

2000

0.72

200-mkt**

1693

270

37

2000

1685

270

45

2000

1625

320

55

2000

0.69

220-mkt**

1708

255

37

2000

0.69

190-mkt**

1708

255

37

2000

1705

250

45

2000

1705

250

45

2000

0.65

210-mkt**

190-mkt**

1740

215

45

2000

Diets containing Phytase

1743

220

37

2000

0.67

180-mkt**

1728

235

37

2000

1725

230

45

2000

Diets containing Phytase

Grow/Finish Base Mix Product Options

With Phytase	A 65 PHYTASE
With Phytase	CRO-FIN 46-37 PHVTASE
Without Phytase	A55-45



Copper Zinc & Iron PMX is added to diets from 60-140 lb body weight to help support faster growth and better feed utilization cost effectively.

- * Gro 65 may be used to replace Gro-Fin 55-45 or Gro-Fin 46-37 and Gro Booster in diet.
- ** If Paylean® is used in the last diet, select a diet containing a minimum of 0.85% lysine and 16% crude protein during the period Paylean® is fed.
- a = To mix diets using 46.5% SBM, multiply lb of 47.5% by 1.02 and adjust corn.
- b = To mix diets using 44.0% SBM, multiply lb of 47.5% by 1.08 and adjust corn.

For more information contact:



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