



## STANDARD industrial premixes for pigs

Components	Measurement unit in 1 kg	Prestarter	Starter	Grower	Finisher	Locha luźna i prośna	Locha karmiąca
<b>Share in feed</b>		<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>
Calcium	%	16/10	18/12	26/21	28/25	26	24/20
Vitamin A	m.u.	3 000 000	2 400 000	1 500 000	1 000 000	1 600 000	2 000 000
Vitamin D <sub>3</sub>	m.u.	300 000	300 000	300 000	200 000	240 000	300 000
Vitamin E	mg	21 000	14 000	10 500	7 000	7 000	8 400
Vitamin K <sub>3</sub>	mg	450	300	220	150	200	400
Vitamin B <sub>1</sub>	mg	450	300	220	150	150	180
Vitamin B <sub>2</sub>	mg	1 200	800	600	400	400	800
Vitamin B <sub>6</sub>	mg	900	600	450	300	300	360
Vitamin B <sub>12</sub>	mcg	7 500	5 000	3 700	2 500	3 000	3 000
Folic acid	mg	600	400	300	200	200	240
Pantothenic acid	mg	3 000	2 000	1 500	1 000	2 000	2 000
Nicotinic acid	mg	6 000	4 000	3 000	2 000	3 000	4 000
Biotin	mcg	30 000	20 000	15 000	10 000	20 000	20 000
Choline chloride	mg	80 000	80 000	40 000	20 000	40 000	60 000
Manganese	mg	8 000	8 000	6 000	4 000	5 200	6 000
Zinc	mg	28 000	28 000	15 000	8 000	13 000	15 000
Iron	mg	20 000	20 000	15 000	10 000	16 000	16 000
Copper	mg	32 000	32 000	4 000	4 000	4 000	4 000
Cobalt	mg	80	80	60	40	80	80
Iodine	mg	160	160	120	80	160	160
Selenium	mg	40	40	30	20	40	40
Antioxidant		+	+	+	+	+	+
Meridol S*		-/+	-/+	-	-	-	-
Meridol T*		-	-	-/+	-/+	-	-
Meridol L*		-	-	-	-	-	-/+

\* Meridol S, T i L - LNB Poland products – natural productivity stimulators

**Intended for:**

Prestarter - for piglets

Starter - for piglets and weaners

Grower - for weaners and fatteners

Finisher - for fatteners

Locha luźna i prośna - for dry and early pregnant sows

Locha karmiąca - for late pregnant sows and lactating sows

## FORTE industrial premixes for pigs

Components	Measurement unit in 1 kg	Prestarter	Starter	Grower	Finisher	Locha luźna i prośna	Locha karmiąca
<b>Share in feed</b>		<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>	<b>0,5%</b>
Calcium	%	11/5	14/8	23/18	24/20	21	19/14
Vitamin A	m.u.	4 000 000	3 000 000	2 000 000	1 500 000	2 000 000	2 400 000
Vitamin D <sub>3</sub>	m.u.	400 000	400 000	400 000	300 000	360 000	400 000
Vitamin E	mg	28 000	21 000	14 000	10 500	9 800	16 800
Vitamin K <sub>3</sub>	mg	600	450	300	220	300	600
Vitamin B <sub>1</sub>	mg	600	450	300	220	210	360
Vitamin B <sub>2</sub>	mg	1 600	1 200	800	600	560	960
Vitamin B <sub>6</sub>	mg	1 200	900	600	450	420	720
Vitamin B <sub>12</sub>	mcg	10 000	7 500	5 000	3 750	4 000	6 000
Folic acid	mg	800	600	400	300	400	480
Pantothenic acid	mg	4 000	3 000	2 000	1 500	2 400	2 400
Nicotinic acid	mg	8 000	6 000	4 000	3 000	4 000	4 800
Biotin	mcg	40 000	30 000	20 000	15 000	40 000	40 000
Choline chloride	mg	100 000	100 000	60 000	50 000	100 000	100 000
Manganese	mg	12 000	10 000	8 000	6 500	7 000	8 600
Zinc	mg	28 000	28 000	20 000	15 000	15 000	20 000
Iron	mg	30 000	24 000	20 000	16 000	25 000	25 000
Copper	mg	32 000	32 000	4 000	4 000	4 000	4 000
Cobalt	mg	120	120	120	100	100	120
Iodine	mg	240	240	240	200	200	240
Selenium	mg	60	60	60	50	50	60
Antioxidant		+	+	+	+	+	+
Meridol S*		-/+	-/+	-	-	-	-
Meridol T*		-	-	-/+	-/+	-	-
Meridol L*		-	-	-	-	-	-/+

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## FORTE supplementary feed mixes with amino acids for pigs

Components	Measurement unit in 1 kg	Starter	Grower	Finisher	Locha luźna i prośna	Locha karmiąca
Share in feed		1%	1%	1%	1%	1%
Calcium	%	5/4	16/14	24/22	24	19/18
Lysine	%	24,5	19,5	10,2	2,0	10,0
Methionine	%	8,2	4,0	0,5	-	1,0
Threonine	%	7,2	2,7	1,8	-	1,5
Vitamin A	m.u.	1 500 000	1 000 000	750 000	1 000 000	1 200 000
Vitamin D <sub>3</sub>	m.u.	200 000	200 000	150 000	180 000	200 000
Vitamin E	mg	10 500	7 000	5 250	4 900	8 400
Vitamin K <sub>1</sub>	mg	220	150	110	150	300
Vitamin B <sub>1</sub>	mg	220	150	110	100	180
Vitamin B <sub>2</sub>	mg	600	400	300	280	480
Vitamin B <sub>3</sub>	mg	450	300	220	200	360
Vitamin B <sub>5</sub>	mcg	3 750	2 500	1 870	2 000	3 000
Folic acid	mg	300	200	150	200	240
Pantothenic acid	mg	1 500	1 000	750	1 200	1 200
Nicotinic acid	mg	3 000	2 000	1 500	2 000	2 400
Biotin	mcg	15 000	10 000	7 500	20 000	20 000
Choline chloride	mg	50 000	30 000	25 000	50 000	50 000
Manganese	mg	5 000	4 000	3 250	3 500	4 000
Zinc	mg	14 000	10 000	7 500	7 500	10 000
Iron	mg	12 000	10 000	8 000	12 500	12 500
Copper	mg	16 000	2 000	2 000	2 000	2 000
Cobalt	mg	60	60	50	50	60
Iodine	mg	120	120	100	100	120
Selenium	mg	30	30	25	25	30
Antioxidant		+	+	+	+	+
Meridol S*		-/+	-	-	-	-
Meridol T*			-/+	-/+	-	-
Meridol L*			-	-	-	-/+

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## Sample full-ration feed mix recipes based on 1% FORTE supplementary feed mix

Komponenty	Measurement unit in 1 kg	Starter	Grower	Finisher	Locha luźna i prośna	Locha karmiąca					
Barley	kg	212	462	313	423	347	397	451	450	387	429
Wheat	kg	245	300	400	200	100	100	50	150		
Maize	kg	300		100		100		100		100	
Triticale	kg				200	300	350			300	300
Oats	kg							150	150		
Wheat bran	kg							150	150		50
Soybean extracted meal 46%	kg	205	190	160	150	130	130	75	75	175	175
Plant oil	kg		10								10
Lonacid MAX*	kg	5	5								
Fodder chalk	kg	10	10	6	6	4	4	10	8	12	12
Monocalcium phosphate	kg	8	8	6	6	5	5		3	12	10
Salt	kg	5	5	5	5	4	4	4	4	4	4
1% Starter FORTE	kg	10	10								
1% Grower FORTE	kg			10	10						
1% Finisher FORTE	kg					10	10				
1% Locha luźna i prośna FORTE	kg							10	10		
1% Locha karmiąca FORTE	kg									10	10
Nutritive value of mixes											
Net energy	kcal	2 290	2 290	2 220	2 200	2 190	2 190	2 100	2 080	2 240	2 240
Metabolic energy	MJ	13,3	13,3	12,9	12,8	12,7	12,7	12,2	12,1	13,0	13,0
Total protein	%	17,5	17,6	16,4	16,3	15,3	15,6	13,7	13,9	16,7	17,1
Raw fat	%	2,5	3,0	2,1	2,0	2,2	2,0	2,9	2,7	2,2	3,1
Raw fibre	%	2,9	3,5	3,1	3,4	3,1	3,2	5,6	5,6	3,2	3,6
Lysine	%	1,07	1,07	0,93	0,93	0,78	0,80	0,61	0,62	0,90	0,92
Methionine	%	0,35	0,34	0,29	0,29	0,24	0,25	0,22	0,22	0,27	0,27
Methionine with cystine	%	0,66	0,66	0,59	0,59	0,54	0,55	0,51	0,52	0,58	0,59
Threonine	%	0,69	0,68	0,59	0,60	0,55	0,55	0,48	0,48	0,61	0,62
Tryptophan	%	0,20	0,22	0,20	0,20	0,18	0,19	0,17	0,18	0,20	0,21
Calcium	%	0,70	0,70	0,60	0,60	0,57	0,57	0,71	0,70	0,95	0,92
Total phosphorus	%	0,60	0,60	0,53	0,53	0,50	0,50	0,50	0,55	0,65	0,66
Sód	%	0,21	0,21	0,21	0,22	0,18	0,18	0,17	0,17	0,18	0,18

\* Lonacid MAX - a combined acidifier and preservative manufactured by LNB Poland