



VVS Layer 1,5% macropacks

VVS effectively increasing your egg production since 1972

We have prepared a balanced ration for proper development and higher production in your layers. This ration consists of our premix and the commodities, easily available on your market

- **Balanced ration from any aspect of the chicken needs**
- **Our premixes contain all the necessary vitamins, minerals and enzymes**
- **Your local compounder to advise and adjust the ration accordingly to your requirements**
- **Technical advisors ready to analyse and revise your rations**

Please, contact our local consultant for the information, on the minimum technical requirements, for the production of your own mixture on the farm.



Effective animal nutrition

VVS ZAMBIA L.T.D, PLOT NUMBER L3131N/M CHAMBA VALLEY LUSAKA

BOX 310100 LUSAKA ZAMBIA, CELL: +260 965303481

www.vvszambia.com



Developer

VVS pullets 1,5%

Components:

Rye bran.

Analytical components:

Lysin	2,00 %
Methionin	2,60 %
Treonin	0,70 %
Calcium	0,10 %
Phosphorus	0,77 %
Natrium	0,03 %
Magnesium	0,41 %

Nutritional additives in kg:

3b101 (FeCO ₃) as Fe	3 333,00 ppm
3b202 (Ca (HO)2 as I	67,00 ppm
3b202 (Ca (HO)2 as I	67,00 ppm
3a672a Vitamin A	666 667,00 I.u.
3a671 Vitamin D3	300 000,00 I.u.
3a821 Vitamin B1	133,00 ppm
Vitamin B2	400,00 ppm
3a841 D-calcium pantothenate	867,00 ppm
3a890 Cholinechlorid	20 000,00 ppm
3a315 Niacinamid	3 200,00 ppm
3a831 Vitamin B6	267,00 ppm
Vitamin B12	1,60 ppm
3a316 Folic acid	67,00 ppm
3a880 Biotin	5,33 ppm
3a720 Betain	6 667,00 ppm
Vitamin E as alpha-tocopherol 3a700	1 852,00 ppm
3b405 (CuSO ₄ ·5H ₂ O) as Cu	467,00 ppm
3b502 (MnO) as Mn	6 667,00 ppm
3b603 Zinc oxide (ZnO) as Zn	5 333,00 ppm
3b801 (Na ₂ SeO ₃) as Se	20,00 ppm

Technological additives in kg:

E 321 Butylhydroxytoluol (BHT)	400,00 ppm
1b320 Butylhydroxyanisol (BHA)	80,00 ppm

Zootechnical additives in kg:

4a1620i Endo-1,4 beta-Xylanase 3.2.1.8	73 260,00 vu
E 1620 Endo-1,3(4) beta-Glukanase 3.2.1.6	99 900,00 vu
4a32 6-Fytáza (EC 3.1.1.3.26)	100 000,00 fu

Usage:

Mineral feed is for pullets. Dosage: 1,5 % into complete feed mixture for pullets.

Store in dry place on wooden pallets.



0–16. week

Additional ingredients

Enzymes

Use of Feed enzymes reduce nutritional input costs, bring more flexibility in least cost formulation, support animals' health status and improve and sustainability of production. During these times of unpredictable volatility and catastrophic raw material prices, the value of feed enzymes as part of the nutritionist's toolbox has never been higher. The effects are consistent, measurable, scientifically credible, and economically valuable.

Phytases are a enzymes covering a range of sizes, structures and catalytic mechanisms. The main benefits of using phytase is by reducing the use of inorganic phosphates in the diet, by increasing the availability of phytic phosphorus from plant ingredients thus reducing the antinutritional factors of phytic acid, by lowering the endogenous losses and favoring the utilization of minerals, aminoacids and energy. Therefore, the effective use of phytase can reduce the need for both Ca and available P supplementation.

Exogenous protease, supported by adjacent enzymes such as phytase and carbohydrase and strategic use of crystalline aminoacids, allow animal performance to be sustained with radically reduced dietary crude protein concentrations. This has a substantial effect on diet cost and brings more latitude in formulation approaches e.g., reduced reliance on protein meals.

Scattics

Scattics is a nutritional emulsifier designed to enhance digestion and absorption of energy-rich feed ingredients, including fats, oils and fat-soluble nutrients in livestock. This helps to maximize feed efficiency.

Layer

VVS Layer 1,5%



Components:

Monocalciumphosphate, natrium chloride, limestone, magnesium oxide.

Analytical components:

Methionin	5,30 %
Calcium	11,74 %
Phosphorus	14,50 %
Natrium	6,70 %
Magnesium	0,70 %

Nutritional additives in kg:

3b101 (FeCO ₃) as Fe	2 667,00 ppm
3b202 (Ca (HO)2 as I	67,00 ppm
3a672a Vitamin A	666 667,00 I.u.
3a671 Vitamin D3	200 000,00 I.u.
3a821 Vitamin B1	67,00 ppm
Vitamin B2	267,00 ppm
3a841 D-calcium pantothenate	667,00 ppm
3a890 Cholinechlorid	16 667,00 ppm
3a315 Niacinamid	2 000,00 ppm
3a831 Vitamin B6	200,00 ppm
Vitamin B12	667,00 ppm
3a316 Folic acid	67,00 ppm
3a880 Biotin	3,00 ppm
3a710 Vitamin K3	200,00 ppm
3a920 Betain	6 667,00 ppm
Vitamin E as alpha-tocopherol 3a700	2 667,00 ppm
3b405 (CuSO ₄ ·5H ₂ O) as Cu	467,00 ppm
3b502 (MnO) as Mn	6 667,00 ppm
3b603 Zinc oxide (ZnO) as Zn	4 000,00 ppm
3b801 (Na ₂ SeO ₃) as Se	24,00 ppm

Sensorial additives in kg:

E 1610 Lactin	200,00 ppm
E 161g Kantaxantin	417,00 ppm

Technological additives in kg:

E 321 Butylhydroxytoluol (BHT)	400,00 ppm
1b320 Butylhydroxyanisol (BHA)	80,00 ppm

Zootechnical additives in kg:

4a1620i Endo-1,4 beta-Xylanase 3.2.1.8	73 260,00 vu
E 1620 Endo-1,3(4) beta-Glukanase 3.2.1.6	99 900,00 vu
4a32 6-Fytáza (EC 3.1.1.3.26)	100 000,00 fu

Usage:

Mineral feed is for layers. Dosage: 1,5 % into complete feed mixture for layers.

Store in dry place on wooden pallets.



VVS Layer L0 17.-18. week until 2% of production
VVS Layer 95 19.- 20. week
VVS Layer 100 20.- 21. week
VVS Layer 105 21.- 22. week
VVS Layer 110 22.- 55. week
VVS Layer 115 55.-75. week
VVS Layer 120 76. week until removal of hens

Our line of rations prepared for your chick to be reared into a supreme laying hen



Starter

Nutrient	Unit	Total amount
Crude protein	g	200,00
Lysine	g	11,80
Methionine	g	5,78
Threonine	g	8,20
Crude fat	g	40,00
Crude fiber	g	35,39
ME – poultry	mj	11,44
Calcium	g	9,50
Phosphorus	g	7,99
Phosphorus – available	g	4,50
Sodium	g	1,65
Chlorides	g	1,80
Vitamin A	m.j.	13 350,70
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	59,57

VVS Pullets 1,5	%	1,50
Salt feed grade	%	0,25
Sodium sulfate	%	0,15
Monocalcium phophate	%	1,15
Limestone	%	1,23
Maize bran	%	22,22
Soya cake 47%	%	23,00
Whole maize	%	45,00
FF Soya	%	4,00

Grower

Nutrient	Unit	Total amount
Crude protein	g	190,00
Lysin	g	10,30
Methionin	g	4,68
Treonin	g	7,23
Crude fat	g	38,00
Crude fiber	g	37,00
ME-Poultry	mj	11,28
Calcium	g	9,00
Phosphorus	g	7,80
Phosphorus-available	g	4,25
Sodium	g	1,65
Chlorides	g	1,80
Vitamin A	m.j.	12 450,71
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	54,51

VVS Pullets 1,5	%	1,50
Salt feed grade	%	0,20
Sodium sulfate	%	0,18
Monocalcium phophate	%	0,75
Limestone	%	1,12
Maize bran	%	27,90
Soya cake 47%	%	11,05
Whole maize	%	50,00
FF Soya	%	2,00
Sunflower cake	%	3,80

Developer

Nutrient	Unit	Total amount
Crude protein	g	160,00
Lysin	g	7,80
Methionin	g	3,23
Crude fat	g	34,40
Crude fiber	g	40,36
ME-Poultry	mj	10,48
Calcium	g	8,80
Phosphorus	g	7,89
Phosphorus-available	g	4,15
Sodium	g	1,65
Chlorides	g	1,90
Vitamin A	m.j.	9 999,81
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	43,50

VVS Pullets 1,5	%	1,50
Salt feed grade	%	0,18
Sodium sulfate	%	0,18
Monocalcium phophate	%	0,25
Limestone	%	1,00
Maize bran	%	34,50
Soya cake 47%	%	6,00
Whole maize	%	50,00
FF Soya	%	1,00
Sunflower cake	%	5,00

Line of our Layer rations to get your hens from 95%+ until the end of production still able to be sold for a backyard market



Layer L0

Nutrient	Unit	Total am.
Crude protein	g	170,00
Lysin	g	8,44
Methionin	g	4,00
Crude fat	g	45,00
Crude fiber	g	34,98
ME-Poultry	mj	11,16
Calcium	g	20,00
Phosphorus	g	7,61

Nutrient	Unit	Total am.
Phosphorus-ava.	g	4,25
Sodium	g	1,64
Chlorides	g	1,80
Vitamin A	m.j.	9 900,71
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	64,46

Layer 95

Nutrient	Unit	Total am.
Crude protein	g	185,00
Lysin	g	9,65
Methionin	g	5,00
Crude fat	g	53,00
Crude fiber	g	30,32
ME-Poultry	mj	11,10
Calcium	g	41,00
Phosphorus	g	7,02

Nutrient	Unit	Total am.
Phosphorus-ava.	g	4,00
Sodium	g	1,65
Chlorides	g	1,80
Vitamin A	m.j.	9 900,57
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	62,99

Layer 100

Nutrient	Unit	Total am.
Crude protein	g	180,00
Lysin	g	9,29
Methionin	g	4,80
Crude fat	g	51,14
Crude fiber	g	29,99
ME-Poultry	mj	11,22
Calcium	g	39,00
Phosphorus	g	6,76

Nutrient	Unit	Total am.
Phosphorus-ava.	g	3,80
Sodium	g	1,65
Chlorides	g	1,80
Vitamin A	m.j.	9 900,59
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	63,32

Layer 105

Nutrient	Unit	Total am.
Crude protein	g	173,00
Lysin	g	8,79
Methionin	g	4,50
Crude fat	g	47,32
Crude fiber	g	31,03
ME-Poultry	mj	11,04
Calcium	g	37,00
Phosphorus	g	6,61

Nutrient	Unit	Total am.
Phosphorus-ava.	g	3,60
Sodium	g	1,65
Chlorides	g	1,80
Vitamin A	m.j.	9 900,62
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	63,64

Layer 110

Nutrient	Unit	Total am.
Crude protein	g	165,00
Lysin	g	8,24
Methionin	g	4,10
Crude fat	g	45,00
Crude fiber	g	32,01
ME-Poultry	mj	10,90
Calcium	g	35,00
Phosphorus	g	6,45

Nutrient	Unit	Total am.
Phosphorus-ava.	g	3,40
Sodium	g	1,66
Chlorides	g	1,80
Vitamin A	m.j.	9 900,66
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	63,96

Layer 115

Nutrient	Unit	Total am.
Crude protein	g	160,00
Lysin	g	7,89
Methionin	g	4,00
Crude fat	g	39,23
Crude fiber	g	32,55
ME-Poultry	mj	10,65
Calcium	g	36,00
Phosphorus	g	6,15

Nutrient	Unit	Total am.
Phosphorus-ava.	g	3,10
Sodium	g	1,63
Chlorides	g	1,80
Vitamin A	m.j.	9 900,68
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	64,14

Layer 120

Nutrient	Unit	Total am.
Crude protein	g	155,00
Lysin	g	7,53
Methionin	g	3,80
Crude fat	g	35,00
Crude fiber	g	33,48
ME-Poultry	mj	10,47
Calcium	g	34,00
Phosphorus	g	6,10

Nutrient	Unit	Total am.
Phosphorus-ava.	g	3,00
Sodium	g	1,65
Chlorides	g	1,91
Vitamin A	m.j.	9 900,71
Vitamin D3	m.j.	2 940,00
Vitamin E	mg	64,41

	L0
Limestone fine	1,20%
Limestone grit	3,00%
L-lysine HCL	0,13%
Salt	0,38%
MCP	0,78%
VVS LAYER 1,5%	1,50%
White maize	39,00%
Soya SE (46)	17,00%
Maize bran	33,21%
Sunflower cake	3,80%

	L 95-100
Limestone fine	4,50%
Limestone grit	4,50%
L-lysine HCL	0,20%
Salt	0,35%
MCP	0,65%
VVS LAYER 1,5%	1,50%
White maize	39,20%
Soya SE (46)	19,10%
Maize bran	25,90%
Sunflower cake	4,10%

	L 105-110
Limestone fine	4,50%
Limestone grit	5,30%
L-lysine HCL	0,10%
Salt	0,38%
MCP	0,48%
VVS LAYER 1,5%	1,50%
White maize	36,00%
Soya SE (46)	14,30%
Maize bran	29,94%
Sunflower cake	7,50%

	L 115-120
Limestone fine	6,30%
Limestone grit	5,07%
L-lysine HCL	0,14%
Salt	0,35%
MCP	0,25%
VVS LAYER 1,5%	1,50%
White maize	34,21%
Soya SE (46)	12,80%
Maize bran	30,38%
Sunflower cake	9,00%

