

## Rat and Mouse No.3 Breeding

*Expanded, Expanded Short and Expanded Ground*

### SUITABLE SPECIES AND APPLICATIONS

Rats and mice for breeding, lactation, and growth of young stock.

### BENEFITS

- High nutrient levels promote excellent breeding performances and fast growth rates in young stock.
- Expanded diets have improved palatability, suffer less wastage and are microbiologically cleaner due to the high processing temperature.

### FEEDING GUIDE

Ad-lib feeding is recommended.

### AVAILABLE AS

Diet	Form	Product Code
<b>Standard</b>		
RM3 (E)	Expanded	801066
RM3 (E) DU	Expanded Short	801080
RM3 (E) FG	Expanded Ground	801067
<b>SQC</b>		
RM3 (E) SQC	Expanded	811181
RM3 (E) FG SQC	Expanded Ground	811182

- All diets are available irradiated and are available in a range of packaging.
- All Standard diets are available with full analysis on request.

### INGREDIENTS

Wheat, Wheatfeed, De-hulled Extracted Toasted Soya, Barley, Fish Meal, Whey Powder, Macro Minerals, Yeast, Soya Oil, Vitamins, Micro Minerals, Amino Acids.



## Calculated Analysis

NUTRIENTS		Total	Supp (9)
<b>Proximate Analysis</b>			
Moisture (1)	%	10.00	
Crude Oil	%	4.25	
Crude Protein	%	22.39	
Crude Fibre	%	4.21	
Ash	%	7.56	
Nitrogen Free Extract	%	51.20	
<b>Digestibility Co-Efficients (7)</b>			
Digestible Crude Oil	%	3.86	
Digestible Crude Protein	%	20.21	
<b>Carbohydrates, Fibre and Non Starch Polysaccharides (NSP)</b>			
Total Dietary Fibre	%	15.43	
Pectin	%	1.43	
Hemicellulose	%	9.20	
Cellulose	%	3.93	
Lignin	%	1.50	
Starch	%	33.92	
Sugar	%	5.75	
<b>Energy (5)</b>			
Gross Energy	MJ/kg	15.21	
Digestible Energy (15)	MJ/kg	12.42	
Metabolisable Energy (15)	MJ/kg	11.36	
Atwater Fuel Energy (AFE) (8)	MJ/kg	13.90	
AFE from Oil	%	11.50	
AFE from Protein	%	26.93	
AFE from Carbohydrate	%	61.57	
<b>Fatty Acids</b>			
<b>Saturated Fatty Acids</b>			
C12:0 Lauric	%	0.05	
C14:0 Myristic	%	0.20	
C16:0 Palmitic	%	0.36	
C18:0 Stearic	%	0.09	
<b>Monounsaturated Fatty Acids</b>			
C14:1 Myristoleic	%	0.01	
C16:1 Palmitoleic	%	0.13	
C18:1 Oleic	%	1.03	
<b>Polyunsaturated Fatty Acids</b>			
C18:2(ω6) Linoleic	%	1.15	
C18:3(ω3) Linolenic	%	0.17	
C20:4(ω6) Arachidonic	%	0.22	
C22:5(ω3) Clupanodonic	%	0.04	
<b>Amino Acids</b>			
Arginine	%	1.54	
Lysine (6)	%	1.33	0.09
Methionine	%	0.34	
Cystine	%	0.34	
Tryptophan	%	0.27	
Histidine	%	0.57	
Threonine	%	0.86	
Isoleucine	%	0.98	
Leucine	%	1.68	
Phenylalanine	%	1.03	
Valine	%	1.10	
Tyrosine	%	0.80	
Taurine	%		
Glycine	%	1.88	
Aspartic Acid	%	1.43	

NUTRIENTS		Total	Supp (9)
Glutamic Acid	%	4.07	
Proline	%	1.38	
Serine	%	0.97	
Hydroxyproline	%	0.06	
Hydroxylysine	%		
Alanine	%	0.14	
<b>Macro Minerals</b>			
Calcium	%	1.15	0.56
Total Phosphorus	%	0.82	0.09
Phytate Phosphorus	%	0.25	
Available Phosphorus	%	0.58	0.09
Sodium	%	0.32	0.19
Chloride	%	0.43	0.31
Potassium	%	0.81	
Magnesium	%	0.29	0.04
<b>Micro Minerals</b>			
Iron	mg/kg	188.17	82.50
Copper	mg/kg	20.28	8.75
Manganese	mg/kg	102.01	52.70
Zinc	mg/kg	51.34	8.64
Cobalt	µg/kg	617.02	525.00
Iodine	µg/kg	1395.12	775.00
Selenium	µg/kg	497.70	200.00
Fluorine	mg/kg	9.24	
<b>Vitamins</b>			
β-Carotene (2)	mg/kg	0.15	
Retinol (2)	µg/kg	5977.24	5812.50
Vitamin A (2)	iu/kg	19923.60	19375.00
Cholecalciferol (3)	µg/kg	102.22	72.50
Vitamin D (3)	iu/kg	4088.65	2900.00
α-Tocopherol (4)	mg/kg	100.35	81.14
Vitamin E (4)	iu/kg	110.39	89.25
Vitamin B <sub>1</sub> (Thiamine)	mg/kg	27.08	19.11
Vitamin B <sub>2</sub> (Riboflavin)	mg/kg	10.60	7.60
Vitamin B <sub>6</sub> (Pyridoxine)	mg/kg	19.54	14.46
Vitamin B <sub>12</sub> (Cyanocobalamine)	µg/kg	26.78	17.75
Vitamin C (Ascorbic Acid)	mg/kg	1.33	
Vitamin K (Menadione)	mg/kg	4.15	3.72
Folic Acid (Vitamin B <sub>9</sub> )	mg/kg	2.73	0.49
Nicotinic Acid (Vitamin PP) (6)	mg/kg	85.00	19.11
Pantothenic Acid (Vitamin B <sub>3/5</sub> )	mg/kg	40.27	23.80
Choline (Vitamin B <sub>4/7</sub> )	mg/kg	1641.65	366.60
Inositol	mg/kg	1903.20	
Biotin (Vitamin H) (6)	µg/kg	322.87	

### Notes

- All values are calculated using a moisture basis of 10%. Typical moisture levels will range between 9.5 - 11.5%.
- a. Vitamin A includes Retinol and the Retinol equivalents of β-carotene  
b. Retinol includes the Retinol equivalents of β-Carotene.  
c. 0.48 µg Retinol = 1 µg β-carotene = 1.6 iu Vitamin A activity  
d. 1 µg Retinol = 3.33\* iu Vitamin A activity  
e. 1 iu Vitamin A = 0.3 µg Retinol = 0.6 µg β-carotene  
f. The standard analysis for Vitamin A does not detect β-carotene
- 1 µg Cholecalciferol (D<sub>3</sub>) = 40.0 iu Vitamin D
- 1 mg all-*rac*-α-tocopherol = 1.1 iu Vitamin E activity  
1 mg all-*rac*-α-tocopherol acetate = 1.0 iu Vitamin E activity
- 1 MJ = 239.23 Kcalories = 239.23 Calories = 239,230 calories
- These nutrients coming from natural raw materials such as cereals may have low availabilities due to the interactions with other compounds.
- Based on in-vitro digestibility analysis.
- AF Energy = Atwater Fuel Energy = ((CO%/100)\*9000)+((CP%/100)\*4000)+((NFE%/100)\*4000)/239.23
- Supplemented nutrients from manufactured and mined sources.
- Calculated.