Bulk Quantity / Aqueous Extract of Velvet Antler

Low temperature processes have been specifically developed to produce a water soluble extract in which the protein and peptide components have retained their bioactivity through the extraction process.

This extract is available in a freeze-dried form and packaged in one kilogram bags.

In this concentrated form, the presence of growth factors and, in particular, insulin growth factor-1, IGF-1, makes this product ideal for inclusion in spray- and dropper-type products.

	Typical analysis	Specification
General description [1]		
Freeze-dried powder		
Solubility (mg/ml at 18-25°C)	14 -18	17
pH of solution	6.9 - 8.0	7.3
Dry matter (DM) %	>90	94
IGF-1(ng/g)	>1000	1600 – 2200
Major components (% of DM) [1]		
Organic matter	>85	88
Ash	9-15	12
Nitrogen	11-15	14
Protein (N x 6.25)	69 - 94	88
Total lipid	<0.4	0.3
Major mineral components (% of DM) [2]		
Calcium	0 - 0.4	0.2
Phosphorus	0.3 - 0.9	0.6
Sulphur	0.5 -1.0	1
Potassium	1.0 - 2.5	1.7
Sodium	1.5 - 4.5	2.9
Magnesium	0 - 0.2	0.07
Trace mineral components (parts per million or mg per kg of DM) [2]		
Iron	200 - 2000	1300
Zinc	20 - 80	45
Copper	5 – 30	23
Manganese	0.5-3.0	2
Selenium	0.1 – 0.8	0.39
Microbiological tests (cfu colony forming units) [3]		
Total aerobic counts (cfu/g)	$<5 \times 10^5$	1×10^3
Faecal coliforms (cfu/g)	$<10^2$	None detected
E coli (cfu/g)	Negative	None detected
Salmonella (cfu/10g)	Negative	Nil/25g
Staphylococci (cfu/g)	$<10^3$	None detected
C perfringens (cfu/g)	$<10^3$	None detected
B cereus (cfu/g)	$<10^3$	None detected

Endnotes – Research sources cited:

[1] Setchell, K D.R Dietary Isoflavones: Biological effects and Relevance to Human Health Symposium on Phytochemicals, Biochemistry and Physiology 1996 April

[2] Naoyuki Tstutsumi Effect of Coumestrol on Bone metabolism in organ culture Biol.Pharm Bull **18**(7) 1012-1015 1995

[3] Draper et al Phytoestrogens reduce bone loss and bone resorption in Oophorectomized rats American Society for Nutritional sciences 1997