

CERTIFICATE OF ANALYSIS

PRODUCT: MICROCRYSTALLINE HYDROXYAPATITE (MCHA)

PRODUCT CODE: 134610

BATCH NUMBER: 87282

SOURCE: Selected bone from pasture fed New Zealand Prime Beef
DESCRIPTION: Fine Free Flowing Creamy White Powder
PARTICLE SIZE: 80 Mesh - <250 micron

Proximate Analysis	Specification	Typical Analysis
Loss on drying (Moisture)%:	0 to 5	0.1
Fat%:	0 to 5	3.2
Protein%:	22 to 28	25.1
Ash (Residue on Ignition)%:	60 to 75	71.6
Carbohydrate %:	0 to 5	0
Calcium:	23 to 28	28.0
Phosphorus%	9 to 13	13.0
Calcium Hydroxyapatite%:	60 to 70	70.0
Heavy Metal Analysis		
Lead:	<0.8 ppm	0.22
Cadmium:	<0.1 ppm	<0.01
Mercury:	<0.05ppm	<0.05
Microbiological Analysis		
Total Aerobic Count (TAC) (cfu per gram @ 35°C for 48 hours):	< 5.0 x 10 ⁴	<10
Clostridium perfringens (cfu per g):	< 10	< 10
Staphylococcus aureus (cfu per g):	< 10	< 10
Escherichia coli (mpn per g):	< 3	< 3
Salmonella (per 25 gram):	Not Detected	Not Detected

BSE, scrapie and other known TSE's do not occur in New Zealand. A national surveillance programme is in place to provide TSE monitoring.

Disclaimer: Waitaki Biosciences, its associated companies and distributors do not assume any liability for alterations in product characteristics as a result of additional processing by the end user.

Product Shelf Life: 3 Years
Manufacture Date: January 2008
Expiry Date: January 2011

Date Issued: January 19, 2009
Signed: _____

Version: 1.3
Jane Doré, Quality Manager

