

FOOD & AGRICULTURE LABORATORIES OF AUSTRALIA Pty. Ltd.

A.C.N. 010 210 796

To:

GUANO AUSTRALIA PTY LTD
49 FIELD STREET
SHEPPARTON VIC 3630

Attn : JOHN JASHAR

Date: 04 06 99

Order No.:

BATCH NO. 138170 MADURA GUANO GOLD KWIK START
REPORT ON PRODUCT

The elemental make up of Guano from analysis carried out by ourselves and the Testing Institute for Industrial Products in Surabaya is as follows.

Phosphate	= 35.5%	Phosphorus (Citrate Soluble)	5.75%
		Phosphorus (Citrate Insoluble)	5.87%
		Total Phosphorus	<u>11.6%</u>
Calcium	= 28.8%	Extractable Calcium	2.54%
		Total Calcium	28.8%
Carbonate	= 14.2%		
Silica	= 8.80%		
Iron	= 1.12%		
Magnesium	= 0.66%		
Organic matter	= <u>0.88%</u>		
TOTAL	= <u>90.0%</u>		

The above results are on a Dry Weight Basis.

The remaining amount to 100% is made up of small amounts of other elements like Potassium, Zinc, Sulphur etc.

The cation exchange capacity test carried out on this product shows a high amount of exchangeable Calcium & Magnesium (129me./100g), which is good for plant growth. The high levels are a result of these elements being in an available form for the plant to immediately extract.

CONCLUSION:

I believe this product to be an excellent soil supplement because it is a conglomeration of readily available nutrients and longer term releasable nutrients for the soil. It is such a mixture of different forms of nutrients so as to both condition and fertilize the soil, resulting in better long term productivity.

Checked By  (Robert Scurr - Director)

For Food & Agriculture Laboratories of Aust.P.L.

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ANALYTICAL LABORATORY

CONSULTING CHEMISTS

RESEARCH & DEVELOPMENT

RESULTS

GUANO GOLD KWIK START

OUR REFERENCE	4601-1
YOUR REFERENCE	Granulated Guano
SAMPLE TYPE	Guano
UNITS (unless otherwise stated)	mg/kg
TKN	590
Cadmium, Cd	<2
Lead, Pb	<10
Mercury, Hg	0.04
Potassium, K	370
Calcium, Ca (as CaO) %	38
Magnesium, Mg	3200
Total Soluble Salts	640
pH (in pH units)	8.2
Fluorine, F (Total) %	<0.005
Total Sulphur	440
Chromium, Cr	36
Nickel	7
Iron, Fe % *	2.0
Aluminium, Al % *	3.9
Molybdenum, Mo %	<0.001
Selenium, Se %	<0.001

* Note that these are acid extractable results and not totals.