

# **BIOMARK<sup>TM</sup>**

## **ORGANIC TRACEMIN**



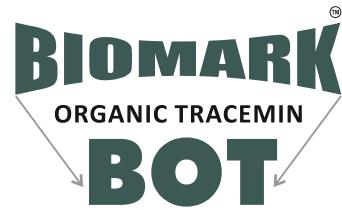
# **BOT**

Revolutionising the concept of  
Organic Trace minerals.



The one and only combination of glycine chelates and marine algae ("Nutrimark<sup>®</sup>"), is Biomark Organic Trace mineral, "BOT"

The only trace mineral which is rich in antioxidants, phenolic compounds and nutrients which are important for the absorption of minerals. The only Trace mineral formulation which makes available more minerals from the feed.



### GLYCINE CHELATES

Copper as Cu Glycinate	10g
Iron as Fe Glycinate	30g
Iodine as I Glycinate	04g
Zinc as Zn Glycinate	50g
Manganese as Mn Glycinate	60g
Chromium as Cr Glycinate	400mg
Sodium as Na Selenite	500mg



### NUTRIMARK PROVIDES

- ▶ Sulphonated polysaccharides
- ▶ Terpenoids, Phenolic compounds
- ▶ Vitamins A, C and D
- ▶ Naturally chelated Macro minerals as Na, Ca, K
- ▶ Multiple microminerals in naturally chelate forms such as I, Fe, Copper, etc...
- ▶ DHA and EPA

The glycine chelates have better bioavailability than the inorganic minerals.



## WHY THESE MINERALS ARE REQUIRED?

### COPPER

Required in various enzymatic activity. Useful in egg shell production. Improves growth performance. Better meat quality. Better gut integrity and footpad health. Useful in cartilage formation.

### IRON

Basic role of iron is in Oxygen transport., DNA synthesis and energy production. Iron is required in the enzyme system for pigmentation process.

### IODINE

The requirement of Iodine is in formation of thyroid hormones.

### ZINC

Deficiency of zinc in young birds shows retarded growth. The deficiency may lead to poor egg laying. Chicks hatched from zinc deficient hens are weak. Zinc is required for proper skeletal development.

### MANGANESE

Deficiency of manganese leads to thin shelled eggs, poor hatch ability. Deficiency of Mn may lead to perosis which causes defective bones and legs.

### CHROMIUM

Chromium is an important micronutrient as it has antioxidant property. It is useful in heat stress. It helps feed efficiency. Chromium enhances production, egg quality and improves eggshell thickness.

### SELENIUM

The deficiency of Selenium may cause oxidative diathesis, because of which slow growth is seen. Selenium is required in laying hens for egg production, hatch ability. It is also required to maintain proper FCR.

Marine algae ("Nutrimark<sup>®</sup>") in BOT works as an antioxidant and anti-inflammatory. Because of marine algae ("Nutrimark<sup>®</sup>") the mucous secretion in the small intestine increases. Due to this extra mucous secretion, more minerals are available from feed. Thus, BOT becomes the only trace-mineral which not only provides the trace-minerals but also increases the availability of minerals from feed.

BOT is manufactured in our FAMI-QS version 6, certified facility. Here we ensure to deliver the best product to the customer. The glycine chelates are sourced from the best sources of India. These are sourced from the certified manufacturers. Marine algae ("Nutrimark<sup>®</sup>") made from the selected marine algae are procured from West and South coast of India.

# Commercial trial conducted on a commercial layer farm :  
1 test and 1 control shed.



### Shed B: Trial shed for BOT

Number of birds : 18049

Date	Age	Egg Production	%	Broken Egg	Salable Eggs
7/28/2023	38th Wk	117570	93.40	60	117510
8/4/2023	39th Wk	117810	93.80	60	117750
8/11/2023	40th Wk	117510	93.80	90	117420
8/18/2023	41st Wk	117930	94.30	90	117840
8/25/2023	42nd Wk	117290	93.90	230	117060
9/1/2023	43rd Wk	116670	93.60	150	116520
9/8/2023	44th Wk	115710	93.10	240	115470
9/15/2023	45th Wk	108180	87.70	60	108120
9/22/2023	46th Wk	96210	79.70	150	96060
		1024880	91	1130	1023750
				0.11	
	Egg/Hen Housed	56.78			56.72

Shed B: BOT added to the feed @500g/ton

### Shed H: Control Shed

Number of birds : 16782

Egg Production	%	Broken Egg	Salable Eggs
109440	93.50	360	109080
109530	93.80	90	109440
108990	93.60	420	108570
108030	92.90	180	107850
107610	92.70	300	107310
108330	93.50	450	107880
106530	92.10	630	105900
102480	89.00	540	101940
81660	72.90	330	81330
942600	90	3300	939300
		0.35	
56.17			55.97

Shed B: BOT added to the feed @500g/ton

0.75

# Second trial on the same farm with same birds for 10 weeks

### Shed B: Trial shed for BOT

Number of birds : 16114

Age	Egg Production	%	Broken Egg	Salable Eggs
63rd Wk	97980	87.00	450	97530
64th Wk	98770	87.90	570	98200
65th Wk	96900	86.50	1080	95820
66th Wk	95250	85.30	510	94740
67th Wk	94350	85.00	690	93660
68th Wk	93000	84.00	810	92190
69th Wk	91870	83.00	1180	90690
70th Wk	91650	83.00	930	90720
71st Wk	90660	83.00	660	90000
72nd Wk	86340	79.00	720	85620
	936770	84	7600	929170
Egg/Hen Housed	58.13		0.81	57.66

Shed B: BOT added to the feed @500g/ton

2.61

### Shed H: Control Shed

Number of birds : 16608

Egg Production	%	Broken Egg	Salable Eggs
96090	83.00	570	95520
95100	82.00	540	94560
93570	80.00	900	92670
94140	82.00	1080	93060
93630	82.00	990	92640
93510	82.00	990	92520
92360	81.00	1560	90800
90750	80.00	1320	89430
89190	78.00	990	88200
85530	75.00	600	84930
923870	81	9540	914330
		1.03	
55.63			55.05

Both the trials show that the number of broken eggs is less in the shed where BOT is included. Number of Salable eggs is more in the Shed where BOT is included.



## BENEFITS OF USING BOT



Provides macro and micro minerals, anti oxidants and functional feeds.



Less number of broken eggs.



Improves the number of eggs.



Better weight gain and FCR.



Better quality meat colour.



Improves the hatchability.



Increased minerals and nutrient availability from feed.

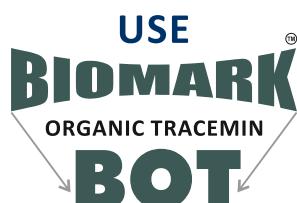
### Feeding recommendation



For Breeder :  
1Kg / Ton of Feed



For Broiler and Layer :  
300 g.-500 g./Ton of Feed



REGULARLY

THE MINERAL SOLUTION FOR NEXT GENERATION

Marketed by :  
**Exotic**  
Bio-Solutions Pvt. Ltd.

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