The Pioneer

Feed Phosphate Supplement

HYCAPHOS

SINCE 1979

a product by

excellens inc.

HAYCO GROUP OF COMPANIES est 1950

Over 60 years of manufacturing world class products

Neutra-X
THE TOXIN BINDER
SINCE 1992

The Pioneer
Feed Phosphate Supplement
HYCAPHOS
SINCE 1979

PORT
RESTAURANT
Cebu's Favorite Buffet

Company History and Profile

The Hayco Group of Companies have been evolving for more than half a century. Starting as an engineering outfit and cereal processor, the groups have diversified into varied businesses. Throughout it's evolution, the company has practiced the values of financial prudence, involvement and above all, respect for everyone, customers and employees alike.

Hygel Carrageenan
Food Stabilizers
& Emulsifiers

RAIN or SHINE
all-weather furniture

Mission

To provide value to our customers through the provision of quality goods and services. The organization will ensure that all people with whom we come in to contact will experience courtesy, respect and integrity of the highest order from every member of our team.

LB
Packaging Solutions

Paradise Garden
Event Pavilion

Product Lines and Business

Processed foods, food stabilizers, food emulsifiers, feed phosphates, toxin binders, agri-fertilizers, plastic packaging, furnitures, accessories, restaurants, convention centers and property development.

Beverly View
EVENTS PAVILION

FOOD PARK . OFFICE . PADS

THE FURNITURE CITY
CEBU'S BIGGEST FURNITURE SHOWROOM

excellens inc.

OVER 1 MILLION TONS DELIVERED

The Pioneer
Feed Phosphate Supplement
HYCAPHOS
SINCE 1979

a quality product of:
Excellens inc.
a member of Hayco Group
SINCE 1950

35 Years of providing quality Feed Phosphate to the Hog Industry

BACKGROUND & ADVANTAGES:

- Exclusively used by leaders of the Feed Industry & integrated Farms
- Excellent source of phosphorus and calcium
- Reliable and economical (reduce cost by 30%-40%)
- Ideal substitute for dicaphos and tricaphos
- Process under strict quality control standards, assure you of superior quality and high biological availability
- Improves energy effeciency

INDICATION:

- Improves shell thickness, Increases egg hatchability in poultry layers
- Prevents lameness and strenghtens bone structure of livestock
- Enhances bone formation and metabolism
- Prevents rickets and osteomacia in young and adult animals
- Regulates acid-base balance
- Regulates muscle contraction and relaxation
- Necessary for blood clotting
- Concerned with metabolism of carbohydrates and fats
- Involved in fat metabolism through formation of lecithins
- Involved in fat formation of phospholipids present in every body tissue

GUARANTEED ANALYSIS:

- Phosphorus 11%
- Calcium 14%

- Close monitoring by our company laboratory insures quality and product consistency
- Using advance spectrophotometry, our lab chemist quality checks every product delivery.

PACKAGING: • 50 kilos per PVC bag

DOSAGE:

20 to 50 Kgs. of **Hycaphos** per 1000 kgs. of feeds depending on the phosphorus requirement of the livestock.

Manufactured under strict global quality standard.

SWITCH TO HYCAPHOS NOW!

- Hycaphos is pH7 neutral, other feed phosphates are pH 2-2.6 which are highly acidic. High acidity irritates the stomach and destroys the villi causing severe damage to the digestive system
- Safe, no chemical treatment
- Manufactured under strict global quality standards
- No artificial process
- Not treated with Sulfuric Acid
- Neutral ph7 safe for gut of animals vs pH2 highly acidic levels of other feed phosphates
- Save 10% to 20% vs imported
- Consistent quality
- Convenient to order
- No need to import, indent or keep a high bulk inventory
- Available year round

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mobile: 0917 159 6977 | tel: 6332 2361944

PRODUCT DESCRIPTION AND SPECIFICATIONS

BRAND	HYCAPHOS
TECHNICAL DESCRIPTION	CALCIUM PHOSPHATE
COLOR	Light gray to grayish tan
FINENESS	1,000 microns
CHEMICAL ANALYSIS	Phosphorus 11.00% Calcium 14%

UNDESIRABLE SUBSTANCES*	EU STANDARDS
Flourine (F)	Max 0.2%
Arsenic (As)	Max 10 mg/kg
Cadmium (Cd)	Max 10 mg/kg
Lead (Pb)	Max 15 mg/kg
Mercury (Hg)	Max .01 mg/kg
Dioxins (WHO-PCDD/F-TEQ)	Max 0.75 ng/kg
Dioxins + dioxin-like PCBs (WHO-PCDD/F-TEQ)	Max 1.0 ng/kg

*conforms to current EU legislation

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CERTIFICATE OF ANALYSIS

Product Name: Calcium Phosphate (Feed Grade)

Brand Name: Hycaphos

Batch Number: PRO 62320

Form: Powder

Date of Analysis: June 5,2020

Expiry Date: June 2030

Phosphorus: 11.36%

Calcium: 14.18%

Lolita R. Limoran

Analyzed by:

Quality Assurance Laboratory Chemist

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EFFICACY OF HYCAPHOS AND NEUTRA-X IN LAYER DIETS
Vista del Rio Farm, Cagayan de Oro City

OVERVIEW OF THE STUDY

Two buildings with Hisex White laying hens were subjected to an experimental diet to test the efficacy of Hycaphos (branded tricalcium phosphate) and Neutra-X (branded toxin binder). The feeding trial was done for a period of 30 days. Average age of laying hens used was 76 to 83 weeks old.

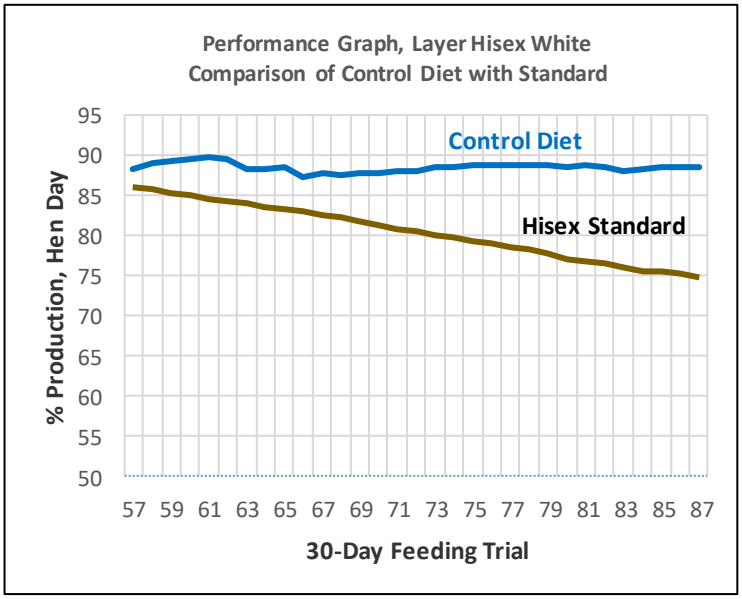
METHODOLOGY

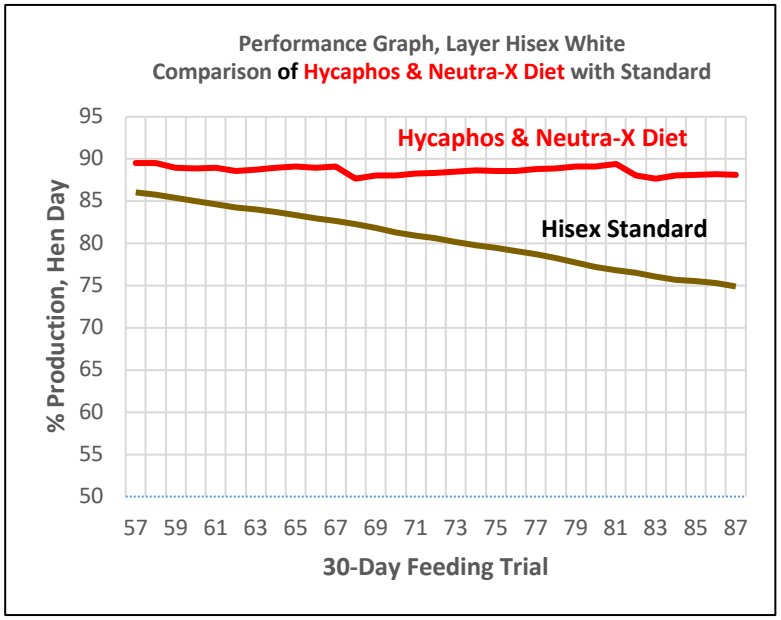
There were two (2) diets that were formulated. The first was the CONTROL diet (standard feed) using corn-soya with porkmeal, Aliphos and Natuphos. The second diet was the EXPERIMENTAL diet using corn-soya with Hycaphos at 3.6% level and Neutra-X at 0.3% level.

The first diet used a total of 2,467 heads of laying hens and the second diet used a total of 2,426 layers. Each bird was given 117 grams of feed on a daily basis for a period of 30 days.

RESULTS OF EXPERIMENT

1. Birds fed the control diet had an average egg production of 88.62% while birds given the experimental diet had 88.64%
2. Total percentage of cracked eggs was 2.63% for the control while the experimental diet had 2.94%
3. Soft shell incidence was 0.94% for the control and 1.11% for the experimental diet.
4. Mortality for the control diet was 1.38% and the experimental diet was 1.20%.





CONCLUSIONS

Based on the results of the experiment, we can conclude the following:

1. **Excellent Egg Production.** There was no significant difference in the egg production of layers fed the control diet and those fed with the experimental diet.
2. **Minimized Soft Shelling.** There was no significant difference in the percentage of cracked and soft shelled eggs.
3. **Neutra-X lowers mortality.** There is a significantly higher rate of mortality for layers fed with the control diet compared with those fed the experimental diet. Neutra-X, the toxin binder used in the experiment may have caused the lower mortality in the layers fed with the experimental diet.
4. **Hycaphos and Neutra-X lowers cost.** The control diet had higher feed cost considering the cost of Aliphos and Natuphos. The experimental diet had a lower total feed cost due to the use of Hycaphos, a branded locally available tricalcium phosphate which is a cost effective phosphorus source. The toxin binder, Neutra-X was also relatively lower in cost compared to other toxin binders available in the market.
5. **Better Performance compared to Standard.** The efficacy of Hycaphos as a source of phosphorus was reinforced by the positive response of layers fed the experimental diet. The results showed better performance than the Hisex White International Performance Standard.

MATERIAL SAFETY DATA SHEET (MSDS)

01 – IDENTIFICATION OF THE PRODUCT AND SUPPLIER

Product Name: Hycaphos Phosphate Supplement
Supplier: Excellens Incorporated
Address: 1133 Hernan Cortes St., Mandaue City, Cebu
Phone/Fax: (032) 236 1944
Email: info.excellensinc@gmail.com

02 – COMPOSITION OF THE PRODUCT

Product Description: Light grey, black, odor free, loose solid. Phosphate rock sources which are stable inorganic minerals
Components: Phosphate rock 100%
Risk Phrases: Non hazardous

03 – HAZARDS IDENTIFICATION

Poisons Schedule: None allocated
Main Hazards: Not classified as hazardous. Possibility of dust generation in handling.
Health Effects(Eyes): Dust can cause transient irritation by abrasion.
Health Effects(Skin): Dust may cause irritation by abrasion.
Health Effects: Inhalation of the dust may cause irritation the mucous membrane and upper airways. Symptoms can include sneezing, coughing and breathing difficulties.

EC Safety:
S25 (avoid contact with eyes)
S22 (do not breathe dust)

04 – FIRST AID MEASURES

Eye Contact: Immediately flood the eye with plenty of water for at least 10 minutes, Holding the eye open. If irritation develops seek medical attention.

Skin Contact: Wash skin thoroughly with soap and water.

Inhalation: Move the person in open air. If irritation develops, seek medical attention.

05 – FIRE FIGHTING MEASURES

Specific Hazards: Non-combustible material
Fire fighting advice: not combustible in case of fire & is compatible with all extinguishing media.

06 – ACCIDENTAL RELEASE MEASURES

No toxic effects. Clean and recover as suitable. Do not generate dust and collect in suitable containers for recovery or disposal. Dispose of in a landfill.

07 – HANDLING AND STORAGE

Handling: Avoid creating dust. Avoid inhaling dust.
Storage Precautions: Store in a cool dry place, out of direct sunlight.
Not classified as a Dangerous Goods for transport by road and rail.

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08 – EXPOSURE CONTROLS/PERSONAL PROTECTION
Respiratory Protection: Dust respirator if conditions dusty.

Ventilation: Local exhaust ventilation is recommended when dust is Likely to be generated from the handling of the material.

Eye/Skin Protection: Use googles/face shield, pvc gloves, and normal work wear overall.

9 – PHYSICAL AND CHEMICAL PROPERTIES
Physical State (20 °C): Loose Solid
Color: Light Grey and Black
Odour: None
Melting Point: Not relevant
Boiling Point: Not relevant
Freezing Point: Not relevant
Solubility in Water: Not Soluble

10 – STABILITY AND REACTIVITY
Stability: Stable under normal conditions of use
Conditions to Avoid: Not Applicable
Hazardous Polymerization: Will not Occur

11 – TOXICOLOGICAL INFORMATION
Inhalation: Inhalation of the dust may cause irritation the mucous Membrane and upper airways.
Eye Contact: This material is irritant to the eyes.
Skin Contact: The degree of irritation was insufficient to warrant Labeling as a skin irritant.

12 – ECOLOGICAL INFORMATION
Mobility: This product is not volatile and insoluble and will accumulate in the ground.
Presistence/Degradation: This product is resistant to biodegradation.

13 – DISPOSAL CONSIDERATIONS
Dispose in a landfill. Dispose of in accordance with all applicable local and national regulations.

14 – TRANSPORT INFORMATION
Road and Rail Transport: not classified as dangerous product for transport by Road and Rail
Marine Transport: not classified as dangerous product for transport by sea
Air transport: not classified as dangerous product for transport by criteria of the International Air transport Association Dangerous products regulation for transport by air.

15 – REGULATORY INFORMATION
Classification: Based on available information, not classified as hazardous
Poisons schedule: none allocted

16 – OTHER INFORMATION
This Material Data Sheet (MSDS) has been prepared in compliance with the relevant directives and regulations. The information in this MSDS should be provided to all who will use, handle, store, transport, otherwise be exposed to this product.

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