

Complementary Micro-Nutrient Supplement:

Honduras Project

Andifar and WISHH/NSRL Effort

The Early Stages

- The Complementary Micro-Nutrient Supplement for Honduras was conceived together with the Ministry of Health of Honduras, WISHH/NSRL and Andifar.
 - To address the nutritional needs of :
 - low income Families
 - Infants/Children 6 to 30 month old
 - Target:
 - Chronic Malnutrition
 - Anemia
 - Stunting

Nutritional Needs

- The project looks at the nutritional needs of low income population.
 - The challenge was to design a product that would meet all the needs.
 - Ease of Use
 - Parents: Little or No formal education
 - Be able to mix with any type of food that they had on hand
 - Palatable
 - Supply the nutritional needs
 - Shelf Stable:
 - No electricity in the house holds (rural areas)

Nutritional Needs

- The Nutritional Requirements
 - Follow WHO nutritional requirements is for 6 month infant
 - University of Illinois Urbana-Champaign
 - Ministry of Health of Honduras

Final Product

- PVM Complementary Micro-Nutritional Supplement



PVM

Protein/Vitamins/Minerals

- Product
 - Ready to mix powder
 - Can be added to any food or drink
 - Little or no alteration to the flavor of the food
 - Small serving size
 - So 6 to 30 months infant/child can consume the recommend dose.

PVM

- The formula contains:
 - Protein
 - Fat
 - Carbohydrates
 - Iron
 - Calcium
 - Zinc
 - Folic Acid
 - Vitamin A
 - Vitamin C

PVM

PVM

Complementary Micro-Nutrient Supplement

27-May-08

Formula R9

Formula contains: Per 26 grams

Iron	10.00	mg	
Zinc	15.00	mg	
Folate	15.00	mcg	
Vitamin C	200.00	mg	
Vitamin A	300	IU	
Calcium	200	mg	
Protein	5.41	g	
Fat	2.26	g	
Carbohydrates	15.24	g	

Manufacturing

- QA/QC
 - Micro
 - Yeast and Mold
 - Bacterial Count
 - Physical/ Chemical Analysis
 - Rheology
 - % Humidity
 - Water Activity
 - Appearance
 - pH
 - Taste Panel

Packaging

- Packaging
 - Challenge due to the adverse conditions of the environment
 - No Electric Power in the House holds of the target population
 - No place to adequately store foods
 - Canister
 - Composite Material
 - Alu/PP/Paper/Alu
 - Little O₂ and water vapor
 - Shelf Life
 - 2 years
 - 2 month after opening the Canister





Micronutrientes Complementarios para los Alimentos

Instrucciones para su uso:

1. Lavarse bien las manos con agua y jabón.



2. Batir bien el frasco de producto antes de abrirlo.



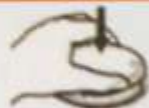
3. Abrir el frasco. Medir dos (2) cucharas de producto.



4. Agregar las dos (2) cucharas medidoras de producto a las comidas o bebidas para el niño(a) y mezclar hasta que se disuelvan bien.



5. Guardar la cuchara en el frasco y cerrarlo herméticamente



6. Guardar el envase en un lugar seco y seguro, alejado del alcance de los niños.



RECOMENDACIONES

1. La leche materna es el mejor alimento. Se recomienda amamantar a su hijo(a) más allá de los 6 meses de edad.
2. Una buena nutrición es importante para que su hijo(a) crezca fuerte y sano.

Tamaño de porción: 2 cucharas medidoras (26 gramos).
Porción por envase: 15

Ingredientes:

Suero dulce, Grasa, Azúcar, Carbonato de Calcio, Maltodextrina, Goma Xantán, Cloruro de Sodio, Furamato Ferroso, Gluconato de Zinc, Ácido Fólico, Vitamina C, Vitamina A, Óxido de Silicio.

Nota: Este producto puede o no contener Harina de Soya.

Nombre:

Próxima Visita:

Registro Sanitario: 00515-05-2007



Laboratorios ANDIFAR
Col. Kennedy, Tegucigalpa
Hecho en Honduras

Long Term Investment

- At the Moment Andifar and WISHH/NSRL are working on pilot projects in different communities in Honduras to determine the response of the population and its impact.
 - Measuring:
 - Hemoglobin
 - Weight and Heights

Sustainability

- The major challenge of the project
 - Sustainability
 - PVM was designed to be a low cost product
 - To be sold at the local food shop
 - Competitive price
 - Price similar to as a small bag of Potato chips

Sustainability

▫ Objectives

- Sell PVM product at the local store to reach the target population
- Educate the population on the importance of consuming a product such as PVM to improve their health.
- Work together with NGOs
 - Working a common goal, reduction of Malnutrition under one product.
- PVM is not a silver Bullet
 - Is a Complementary Supplement
 - To be included with staple Foods and Education.

PVM Product

Thank You!

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