



Moving towards new horizons

PRODUCTS BROCHURE

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Moving towards new horizons

PRODUCTS BROCHURE



ABOUT US

We are an Import and Export Company that belongs to the GAG Holding and registered at the Ministry of Agriculture. The company was created on 1994, it is a Mercantile Society with 100 % Cuban Capital.

We import the inputs, agricultural products and supplies necessary for the assurance of production, research, scientific and technical services and exports.

We market worldwide, mainly in the European market, fresh fruits and vegetables, produced throughout the island, which identify the unmistakable and authentic tropical flavor, with the highest quality and in balance with the environment. This allows us to satisfy the dissimilar preferences of the target markets, due to the variety of our offers.

Charcoal is our main export item due to its quality and acceptance in the international market, which continues to gain space worldwide, promoting different ideal formats for domestic consumption and for industry.

We continue exporting honey from bees, we have also incorporated other products from the hive such as pollen, pollen jams, propolis and Nutritional Supplements.

We bet on the export of new lines with both medicinal and nutritional properties such as Aloe vera, Turmeric, Ginger; and likewise tubers such as Yams, Sweet Potato, maintaining the commitment to be better every day and meet the expectations of the international market.

We also promote the export of services, provided by the Research Institutes of the Agricultural Group, specialized in different crops and integrated by a highly qualified personnel, who carry out the research activity generating products and services that respect the environment and of great impact in the production.

We have a Quality Management System certified by ISO 9001: 2015.



NC-ISO 9001:2015
Registro No. 222-2018



BUREAU
VERITAS

EXPORT FRESH PRODUCTS

Citricos Caribe S.A. exports fresh fruits and vegetables with an unmistakable flavor given the characteristics of climate and soil of Cuba, varieties grown in tropical conditions that provide considerable and diverse amounts of vitamins and minerals for health.

They are distinguished by their texture, smell and authentic flavor that makes them coveted products in international cuisine.

- Hot peppers
- Persian lime
- Mangoes
- Avocados
- Fresh turmeric
- Fresh ginger
- Sweet Peppers
- Cucumbers
- Papaya
- Eggplant
- Pumpkin
- Muskmelon –
- Mushmelon –
- Rockmelon –
- Sweet melon
- Sweet potatoes
- Taro
- Cassava - mandioca
- Yam

HOT PEPPER

Variety:

Chile Habanero

Crop season:

All the year around

Quality:

Extra, First and second quality

Packaging:

Carton boxes of 3 kg

Pallets:

100 carton boxes with size - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



PERSIAN LIME

Variety:

Persian or Tahiti

Crop season:

June - December

Sizes:

Extra Jumbo (61-66mm), Jumbo (57-60 mm), Extra-large (54-56 mm)

Packaging: Carton boxes of \pm 4 kg

Pallets:

144 carton boxes with size 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



MANGOES

Variety:

Haden, Superhaden

Crop season:

May - September

Sizes:

6, 7, 8, 9, 10, 11, 12

Packaging:

Carton boxes of ± 5.5 kg

Pallets:

90 – 100 carton boxes with size - 1 x 1, 2 x 1, 5 m

Shipments: By air, FCA or CPT DELIVERY depending on the airline



AVOCADOS

Variety:

Julio, Cuatro Caminos, Gobin, Catalina

Crop season:

June - September

Sizes:

6, 7, 8, 9, 10, 11, 12

Packaging:

Carton boxes 5.5 kg

Pallets:

90 - 100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



FRESH TURMERIC

Variety:

Curcuma Longa

Crop season:

December – March

Quality:

First and second quality

Packaging:

Carton boxes with ± 10 kg

Pallets:

90 carton boxes with size - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



FRESH GINGER

Variety:

Zingiber

Crop season:

December – March

Quality:

First and second quality

Packaging:

Carton boxes with ± 10 kg

Pallets:

90 carton boxes with size - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



SWEET PEPPERS

Variety:

California Wonder

Crop season:

January - April

Quality: Extra, First and second quality

Packaging:

Carton boxes 10 kg

Pallets:

100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



CUCUMBERS

Variety:

Azabache

Crop season:

All year around

Quality:

Extra, First and second quality

Packaging:

Carton boxes of 4.5 to 10 kg

Pallets:

100 – 144 carton boxes sizes - 1 x 1, 2 x 1, 5 m

Pallets:

100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



PAPAYA

Variety:

Red Maradol

Crop season:

All year around mainly from September till December

Quality:

First and second quality

Packaging:

Carton boxes with 4 – 10 kg

Pallets:

9 - 100 carton boxes with size - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



EGGPLANT

Variety:

Aragón, Barcelona, FHB-1, Florida High Bush, Giralda, Larga de Verano and Serena

Crop season:

January - April

Quality:

First and second quality

Packaging:

Carton boxes with 4.5 or 5.0 kg

Pallets:

100 carton boxes with size - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



PUMPKIN

Variety:

Sweet mama

Crop season:

March - April

Quality:

First and second quality

Packaging:

Woven polypropylene sacks of 23 kg

Pallets:

With 55 woven Polypropylene bags with size -
1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the
airline



MUSKMELON – MUSHMELON – ROCKMELON – SWEET MELON

Variety:

Cantaloupe

Crop season:

January - April

Quality:

First and second quality

Packaging:

Carton boxes 10 kg

Pallets:

100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline

SWEET POTATOES

Variety:

White, Yellow and Orange – INIVIT (BS-16-206), CEMSA (78-354) and INIFAT (0630)

Crop season:

All year around

Quality:

First and second quality

Packaging:

Carton boxes 20 kg

Pallets:

100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



TARO

Variety:

Xanthosoma sagittifolium, atrovirens or migum

Crop season:

All year around

Quality:

First and second quality

Packaging:

Carton boxes 20 kg

Pallets:

100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



CASSAVA - MANDIOCA

Variety:

CMC-40, INIVIT Y-93-4, INIVIT Y-93-7, Jagüey Dulce, CEMSA 74-725, CEMSA 74-6329, Enana Rosada, INIVIT E-80+1

Crop season:

All year around

Quality:

First and second quality on fresh and paraffinized

Packaging:

Carton boxes 20 kg

Pallets:

100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



YAM

Variety:

Dioscorea alata – Belep, Blanco Pelu, IRAT-72 and Pacala Ducloc

Crop season:

mainly january - march

Quality:

First and second quality on fresh and paraffinized

Packaging:

Carton boxes 23 kg

Pallets:

100 carton boxes with sizes - 1 x 1, 2 x 1, 5 m

Shipments:

By air, FCA or CPT DELIVERY depending on the airline



PRODUCTS FROM THE HIVE

NUTRITIONAL SUPPLEMENTS

- Propoforte
- Apiasmin
- Propomiel
- Panmiel
- Propojal
- Jalymel

CUBAN HONEY

www.ccaribe.co.cu

The tradition learns from our grandparents in the management of the beehives, the almost virgin ecosystems where our hives are located and the futuristic projection of our apicultural producers of these times give us a priceless edge on our approach to the honey production.

The completely natural management of the hives, without the use of any chemical product, allow us to have full natural products that are a health balm for those who consume them.

The nectar of the romerillo flowers, the leñatero, the white and purple bells, the soplillo, the almond tree, the royal palm, among others, give Cuban honey not only its peculiar flavor, color and aroma, but also a high content of minerals, vitamins, simple sugars and a wide range of phenolic compounds, organic acids and enzymes.

This indicates that we have a product with a unique aroma and flavor, which in addition to being a food of proven quality; it has important qualities such as antioxidant, energizing, immunostimulant, healing, antiseptic, laxative, diuretic and bactericidal.

To all the above, it must also be added, it's proven innocuousness, for having been produced in a completely natural way, which gives even more prestige to Cuban honey.

NUTRITIONAL SUPPLEMENTS

PROPOFORTE

Composition:
Honey, Royal Jelly, Propolis, Guided industrial Bee Bread.

Properties:
High nutritional value, antianemic. Protector of the respiratory tract. Increase the muscular vigor, potentiates the brain and improve the intellect. Improve prostate functions. Antiviral, antimicrobial, antioxidant and Immunostimulant.



Caloric value (Kcal/100g)	Specification
Caloric value (Kcal/100g)	≥ 295
Humidity (%)	<25
Protein (%)	≥ 0.2
Lipids (%)	0
Assimilable carbohydrates (%)	≥ 65
Total carbohydrates (%)	≥ 70

Microbiologic Information	Specification
Total count of mesophiles viable aerobic M.O.(m.o/ml).	1 x 10 ⁴
Filamentous fungi count (ufc/g)	1 x 10 ²
Viable yeasts count (ufc/g)	1 x 10 ²
Staphylococcus aureus determination on 0.1 g	Absent
Escherichia coli determination on 0.1 g	Absent
Salmonella sp determination on 25 g	Absent
Presence of 10H DA	Positive

TECHNICAL DESCRIPTION

PET amber jar of 250 ml volume (340 g nutritional complement) with golden metallic lid twist off, can be pasteurized, with an interior diameter of 58 mm.
Palletized on CCC of 20 jar each one and 7 roads of high. Apiarian preparation made from a blend of honey, guided industrial beebread, propolis soft extract at 50% and Royal Jelly.

OTHER DESCRIPTIONS

Dark amber viscous liquid, with a slight separation on two phases and sediment that easily disappear after stir.
Resinous smell, ethylic and slightly acetic, characteristic of propolis and honey.

NUTRITIONAL SUPPLEMENTS

APIASMIN

Composition:

Honey, Propolis, Guided industrial Bee Bread

Properties:

High nutritional value. Recommended to recover physical, mental and sexual energies, increasing the vigor, resistance to effort and general well-being. Antianemic. Immunostimulant. Improve prostate functions. Increase the cardio-vascular response.



Caloric value (Kcal/100g)	Specification
Caloric value (Kcal/100g)	≥ 315
Humidity (%)	<25
Protein (%)	≥ 0.2
Lipids (%)	0
Assimilable carbohydrates (%)	≥ 65
Total carbohydrates (%)	≥ 70

Microbiologic Information	Specification
Total count of mesophiles viable aerobic M.O.(m.o/ml).	1×10^4
Filamentous fungi count (ufc/g)	1×10^2
Viable yeasts count (ufc/g)	1×10^2
Staphylococcus aureus determination on 0.1 g	Absent
Escherichia coli determination on 0.1 g	Absent
Salmonella sp determination on 25 g	Absent

TECHNICAL DESCRIPTION

PET amber jar of 250 ml volume (340 g nutritional complement) with golden metallic lid twist off, can be pasteurized, with an interior diameter of 58 mm.

Palletized on CCC of 20 jar each one and 7 roads of high. Apiarian preparation made from a blend of honey, guided industrial beebread, propolis soft extract at 50% and Royal Jelly. PET amber jar of 250 ml volume (340 g nutritional complement) with golden metallic lid twist off, can be pasteurized, with an interior diameter of 58 mm.

Palletized on CCC of 20 jar each one and 7 roads of high. Apiarian preparation made from a blend of honey, guided industrial beebread and propolis soft extract at 50%.

OTHER DESCRIPTIONS

Dark amber viscous liquid, with a slight separation on two phases and sediment that easily disappear after stir. propolis and honey.

NUTRITIONAL SUPPLEMENTS

PROPOMIEL

Composition:
Honey and Propolis.

Properties:

High nutritional value. Protector of the respiratory tract. Regenerator in case of exhaustion, anemia, stress and convalescence. Energetic and invigorative. Immunostimulant. Antiseptic and healing.



Caloric value (Kcal/100g)	Specification
Caloric value (Kcal/100g)	≥ 315
Humidity (%)	<25
Protein (%)	≥ 0.2
Lipids (%)	0
Assimilable carbohydrates (%)	≥ 65
Total carbohydrates (%)	≥ 70

Microbiologic Information	Specification
Total count of mesophiles viable aerobic M.O.(m.o/ml).	1×10^4
Filamentous fungi count (ufc/g)	1×10^2
Viable yeasts count (ufc/g)	1×10^2
Staphylococcus aureus determination on 0.1 g	Absent
Escherichia coli determination on 0.1 g	Absent
Salmonella sp determination on 25 g	Absent

TECHNICAL DESCRIPTION

PET amber jar of 250 ml volume (340 g nutritional complement) with golden metallic lid twist off, can be pasteurized, with an interior diameter of 58 mm.

Palletized on CCC of 20 jar each one and 7 roads of high. Apiarian preparation made from a blend of honey and propolis soft extract at 50%.

OTHER DESCRIPTIONS

Dark amber viscous liquid, with a slight separation on two phases and sediment that easily disappear after stir. Resinous and alcoholic smell.

NUTRITIONAL SUPPLEMENTS

PANMIEL

Composition:
Honey and Guided industrial Bee Bread.

Properties:
High nutritional value. Provides energy and vitality. Fights stress, anemia, depression and physical and mental exhaustion. Improve prostate functions.



Caloric value (Kcal/100g)	Specification
Caloric value (Kcal/100g)	≥ 325
Humidity (%)	<25
Protein (%)	≥ 0.2
Lipids (%)	0
Assimilable carbohydrates (%)	≥ 65
Total carbohydrates (%)	≥ 70

Microbiologic Information	Specification
Total count of mesophiles viable aerobic M.O.(m.o/ml).	1 x 10 ⁴
Filamentous fungi count (ufc/g)	1 x 10 ²
Viable yeasts count (ufc/g)	1 x 10 ²
Staphylococcus aureus determination on 0.1 g	Absent
Escherichia coli determination on 0.1 g	Absent
Salmonella sp determination on 25 g	Absent

TECHNICAL DESCRIPTION

PET amber jar of 250 ml volume (340 g nutritional complement) with golden metallic lid twist off, can be pasteurized, with an interior diameter of 58 mm.
Palletized on CCC of 20 jar each one and 7 roads of high. Apiarian preparation made from a blend of honey and guided industrial bee-bread.

OTHER DESCRIPTIONS

Dark amber viscous liquid, with a slight separation on two phases and sediment that easily disappear after stir. Slight acetic smell. Balanced sweet acid taste.

NUTRITIONAL SUPPLEMENTS

PROPOJAL

Composition:
Honey, Propolis and Royal Jelly.

Properties:
Antibacterial effect, regenerator, ant anemic, expectorant, antioxidant and show action on the free radicals. Stimulates vital functions of the organism.



Caloric value (Kcal/100g)	Specification
Caloric value (Kcal/100g)	≥ 325
Humidity (%)	<25
Protein (%)	≥ 0.2
Lipids (%)	0
Assimilable carbohydrates (%)	≥ 65
Total carbohydrates (%)	≥ 70

Microbiologic Information	Specification
Total count of mesophiles viable aerobic M.O.(m.o/ml).	1 x 10 ⁴
Filamentous fungi count (ufc/g)	1 x 10 ²
Viable yeasts count (ufc/g)	1 x 10 ²
Staphylococcus aureus determination on 0.1 g	Absent
Escherichia coli determination on 0.1 g	Absent
Salmonella sp determination on 25 g	Absent

TECHNICAL DESCRIPTION

PET amber jar of 250 ml volume (340 g nutritional complement) with golden metallic lid twist off, can be pasteurized, with an interior diameter of 58 mm.
Palletized on CCC of 20 jar each one and 7 roads of high. Apiarian preparation made from a blend of honey and guided industrial bee-bread.

OTHER DESCRIPTIONS

Dark brown-red viscous liquid, without sediments and homogeneous. Resinous and ethylic smell characteristic of the honey and propolis.

NUTRITIONAL SUPPLEMENTS

JALYMIEL

Composition:
Honey and Royal Jelly.

Properties:
Energizing, antidepressant, antiseptic, laxative, sedative, contributes to substantial increase of weight and muscular strength, immunostimulant.



Caloric value (Kcal/100g)	Specification
Caloric value (Kcal/100g)	≥ 325
Humidity (%)	<25
Protein (%)	≥ 0.2
Lipids (%)	0
Assimilable carbohydrates (%)	≥ 65
Total carbohydrates (%)	≥ 70

Microbiologic Information	Specification
Total count of mesophiles viable aerobic M.O.(m.o/ml).	1 x 10 ⁴
Filamentous fungi count (ufc/g)	1 x 10 ²
Viable yeasts count (ufc/g)	1 x 10 ²
Staphylococcus aureus determination on 0.1 g	Absent
Escherichia coli determination on 0.1 g	Absent
Salmonella sp determination on 25 g	Absent

TECHNICAL DESCRIPTION

PET amber jar of 250 ml volume (340 g nutritional complement) with golden metallic lid twist off, can be pasteurized, with an interior diameter of 58 mm.
Palletized on CCC of 20 jar each one and 7 roads of high. Apiarian preparation made from a blend of honey and guided industrial bee-bread.

OTHER DESCRIPTIONS

Translucent and viscous liquid, not effervescence, neither presence of gross particles. Sweet and nice taste.

CUBAN HONEY

Consumer formats:

- Glass bottles of 300 and 500 grams.
- Flat pet doser 250, 340 and 500 grams.
- Osito doser 340 grams.
- Cilindrical jar 340, 500, 1000 and 1500 grams.
- Plastic minidosis 19 grams.
- Glass minidosis 30 grams.



Format	net weight unit (g)	units / box	net weight/ box (Kg)	gross weight/box (Kg)	boxes / pallets	net weight/ box (Kg)
Glass bottle 300 g	300	18	5,4	8,2	108	583,2
Glass bottle 500 g	500	12	6,0	8,6	84	504,0
PET JAR OSITO	340	24	8,2	9,05	70	571,2
PET transp. Plastic flat jar 250g	250	30	7,5	8,4	60	450,0
PET transp. Plastic flat jar 340g	340	24	8,2	9,2	60	489,6
PET transp. Plastic flat jar 500g	500	20	10,0	10,8	60	600,0
PET transp. Cilindrical jar 340g	340	24	8,2	9,4	60	489,6
PET transp. Cilindrical jar 500g	500	24	12,0	12,8	60	720,0
PET transp. Cilindrical jar 1000g	1000	12	12,0	13	60	720,0
PET transp. Cilindrical jar 1500g	1500	12	18,0	19	60	1080,0
Plastic Minidosis	19	156	3,0	3,5	55	163,0
Glass Minidosis	30	42	1,3	1,75	99	124,7

Format	net weight unit (g)	units / box	net weight/ box (Kg)	gross weight/box (Kg)	boxes / pallets	net weight/ box (Kg)
Glass bottle 300 g	918,60	2160	11,66	9	12	20
Glass bottle 500 g	755,40	1680	10,08	7	12	20
PET JAR OSITO	666,50	700	5,71	5	11	10
PET transp. Plastic flat jar 250g	537,00	600	4,50	5	12	10
PET transp. Plastic flat jar 340g	585,00	600	4,90	5	12	10
PET transp. Plastic flat jar 500g	681,00	600	6,00	5	12	10
PET transp. Cilindrical jar 340g	597,00	600	4,90	5	12	10
PET transp. Cilindrical jar 500g	801,00	600	7,20	5	12	10
PET transp. Cilindrical jar 1000g	813,00	600	7,20	5	12	10
PET transp. Cilindrical jar 1500g	1173,00	600	10,80	5	12	10
Plastic Minidosis	225,50	550	1,63	5	11	10
Glass Minidosis	206,25	1980	2,49	9	11	20

CUBAN ARTISAN CHARCOAL

The Artisan Charcoal in Cuba is produced completely following the artisanal techniques, this product is derived from wood, variation due to its caloric power and duration in cooking, which being a solid product with a high concentration of carbon is used basically for the preparation of cooked food both for domestic use and restaurants, cafeterias and hotels. Charcoal is a combustible material obtained from wood heating to temperatures around 700 degrees Celsius in the absence of air, once finished for export it is free of impurities with a shiny black color, free of earth, dry to the touch and metallic sound.

- CHARACTERISTICS
- QUALITIES
- PACKAGING
- FORMATS

ARTISAN CHARCOAL ROTURADO DE MARABÚ

HS Code: 402900000

Free of earth.

Humidity: Dry to touch.

Color: Black uniform, "not burned".

Free from dust, Tizo, Cisco or other foreign matter that can affect its use.

Sound: Metallic.

When ignited will not spark or burst.

Packaging:

Polypropylene bags of 20 kilos, with stitched mouth by machine or by hand, stowed directly into the container, without earth, dust or holes.

The amount of bags per 40'HC container between 900 and 1100.



Composition	Characteristics
Carbon Content (%) 76-82	Diameter (mm): 40-100
Humidity, percent by mass, Max. 6,0	Length (mm): 40-250
Ashes, percent by mass, Max. 3,0	Color: Bright Black
Volatile matter, mass percent Max. 10,0 - 15,0	Sound: Metallic
	Impurity: Not admitted

Varieties
Charcoal First Quality
Charcoal Second Quality
Charcoal Cinder
Charcoal Dust
Charcoal hardwood mixture
Charcoal hardwood and Semi-hardwood mixture
Charcoal softdwood mixture
Formes off presentation
Charcoal in 15-20 Kg Polypropylene or Paper Sacks.
Vegetable Charcoal in Kraft Paper Sacks (3 Layers) 15 Kg
Vegetable Charcoal in Kraft Paper Sacks (3 Layers) 10 Kg
Charcoal in Polypropylene Sacks (small format) 7.5 Kg
Charcoal in Paper Sacks (small format) 5 Kg
Charcoal in Paper Sacks (small format) 4 Kg
Charcoal in Paper Sacks (small format) 3.5 Kg

SCIENTIFIC AND TECHNICAL SERVICES

Cítricos Caribe S.A. is a leader company in the export of agricultural and forest products, recognized in the European and Caribbean markets for the quality of its products and their focus on the conservation of the environment. They also export services out of the five Research Institutes that belong to the Ministry of Agriculture. Hereunder a presentation of these Institutes detailing the Scientific and Technical Services that they can provide.

- CONSULTING AND TRAINING IN GOOD AGRICULTURAL PRACTICES.
- SPECIALIZED AGRICULTURAL TECHNICAL ASSISTANCE.
- ADVICE AND TRANSFER OF AGRICULTURAL TECHNOLOGIES.
- TECHNICAL DIAGNOSIS.
- TRAINING.
- PACKAGE OF SERVICES.



Fundamental Research Institute on Tropical Agriculture "Alejandro de Humboldt"

This Institute treasure more than 90 years the experience since its foundation in 1904 and many scientific results applied with success in the production practice. They have 335 hectares dedicated directly to the research activities, four Experimental and Production Stations, more than 30 Agriculture Reference Centers and several independent clients that also support their research activities. This institution stands, rightly, at the highest level among centers of its kind in Cuba.

It has a "staff" of researchers and highly qualified specialists dedicated entirely to its activity, including Ph.D., of which a high percentage is categorized as "Experts" in the FAO "Roster".

List of Scientific and Technical Services of the Institute

1. Food production by agroecological means, using the different production modalities, with emphasis on urban and family production systems.
2. Papaya seedlings production, its cultivation and postharvest.
3. Implementation of an institutional innovation and planning process, strategic management (institutional or municipal level).
4. Production technologies of medicinal and edible mushrooms.
5. Production and management of microbial biofertilizers and biostimulators.
6. Good agricultural practices and organic products certification.
7. Implementation of programs to reduce losses and waste of agricultural products.
8. Production of organic fertilizers and soil agroecological improvement.
9. Technology of cultivation of the Nim and elaboration of its bioproducts.
10. Management, conservation and use of phytogetic resources for food and agriculture.
11. Production of species of interest in semi-protected systems.



The Institute of Horticultural Research Liliana Dimotrova was founded in 1971. It has as infrastructure, a laboratory, general supports installations and an area of 109 ha with most of the representative soils in Cuba, for the production of vegetables, grains, potatoes (*Solanum tuberosum*) and fibers. They work on development and innovation projects related to the production of vegetables, fibers and flowers, as well as providing technological scientific services associated with these products and commercializing them on different markets.

The multidisciplinary composition of its scientific staff allows to work and solve the most complex problems, obtaining results that shows a scientific and technological excellence in the following lines of research:

- Plant breeding, conservation of phytogetic resources and seminology of vegetables, aromatic plants and condiments, flowers and fibers.
- Integrated management of production systems on vegetables, aromatic plants and condiments, flowers and fibers.
- Technology of growing on protected production systems for vegetable on tropical climate.
- Agro ecology and production without the use of pesticides or other chemical products.
- Post-harvest handling.
- Rural Development.

List of Scientific and Technical Services of the Institute

1. General Advisor of agricultural subjects, technical assistance and training in protected crop systems in tropical conditions.
2. Training in:
 - a) Genetic improvement in horticultural crops; tomato (*Solanum lycopersicum*), pepper (*Capsicum annuum*) and melon (*Cucumis melo*).
 - b) Technology in the production of horticultural seeds.
 - c) Production technology of condiments and spices.
 - d) Rural Development.
 - e) Production of vegetables without the use of pesticides or other chemical products.



Institute of Tropical Fruit Research

It is an R & D institution whose main activities are scientific research, technological innovation, supply of scientific - technological services, teaching and the production of basic inputs for the Cuban fruit and vegetable industry.

It target its research according to the demands of the fruit agroindustry, getting an appropriate balance between the basic and applied research. It employs on this purpose advanced technologies and modern science management techniques.

In its structure, it has three Technology Dissemination Groups and two Base Scientific-Technological Units: GDTB Pinar del Río, UCTB Alquizar, GDT Isla de la Juventud, UCTB Jagüey Grande, and GDT Contramaestre.



INIVIT

Tropical Foods Research Institute

It is a competitive and sustainable scientific institution, with great prestige among its national and international clients. The research activity, generates products and services that respect the environment and have a great impact on the production. It has highly qualified human talents and integral training. They have develop national leadership in the maintenance, conservation, expansion and evaluation of the phylogenetic resources of the roots, rhizomes, tubers, and bananas (*Musa x paradisiaca*).

List of Scientific and Technical Services of the Institute

1. Fruit flies monitoring system and management in citrus and tropical fruit productions areas.
2. Diagnostic and Management of diseases of high economic impact in the citrus productions: "HLB" Huanglongbing, citrus tristeza virus and its vectors.
3. Certification of citrus propagation material.
4. Inspections of companies producing tropical fruits.
5. Technical advice for the implementation of the Protocol of Good Agricultural Practices (GLOBALGAP) in the fruit and vegetable sector.
6. Technical Advice for the implementation of a Quality Management System according to the NC-ISO 9001: 2008 in food producing and exporting companies and related research institutes.
7. Post-harvest technology for fresh.

List of Scientific and Technical Services of the Institute

1. Specialized technical assistance in the application of technologies for in vitro micropropagation of roots, rhizomes and tropical tubers, bananas and bananas (*Musa x paradisiaca*) and papaya (*Carica papaya* L.).
2. Specialized technical assistance in the application of technologies for the use of mycorrhizal fungi in the production of roots, rhizomes, tubers, and bananas (*Musa x paradisiaca*), papaya (*Carica papaya* L.), vegetables and grains.
3. Integral technology for the production of papaya (*Carica papaya* L. var. Maradol red)
4. Technical diagnostic on the production of roots, rhizomes, tropical tubers, vegetables and grains of potatoes (*Solanum tuberosum*), and bananas (*Musa x paradisiaca*), papaya (*Carica papaya* L.)
5. Advice for Technicians and Producers.

**Grain Research Institute**

Their research is targeted to provide the scientific and technical basis to the productive systems of grains on varieties of rice (*Oryza sativa*), beans (*Phaseolus vulgaris*), soybeans (*Glycine max*), sorghum (*Sorghum*), corn (*Zea mays*), sesame (*Sesamum indicum*), vignas (*Vigna unguiculata*), peanut (*Arachis hypogaea*) and chickpea (*Cicer arietinum*) taking into account the needs of individual and collective producers in the country.

It is responsible for the conservation, expansion and characterization of the phyto-genetic resources of the varieties of the different grains that it investigates.

List of Scientific and Technical Services of the Institute

1. Design and operation of irrigation and drainage systems in rice areas. Rules for operation, maintenance
2. Leveling design of the areas to be exploited with rice cultivation (*Oryza sativa*).
3. Design and construction of hydrometric works to regulate and measure the volume of water.
4. For products; rice (*Oryza sativa*), beans (*Phaseolus vulgaris*), corn (*Zea mays*) and other grains:
 - a. Design and selection of areas to grow.
 - b. Production technologies manufacturing
 - c. Soil preparation technologies.
 - d. Development of crop management technology (planting time, nutrition, integrated pest management, irrigation).
 - e. Development of harvest and post-harvest technologies for crops.
 - f. Technology for seed production.
 - g. Agroindustrial processes in crops.
5. Grain benefit technologies.
6. Technology to obtain brown rice.
7. Development of quality systems for agricultural and industrial grain production.
8. Industrial technology of rice grain bleaching (*Oryza sativa*).
9. Preparation and realization of diagnoses in areas of grain production. (Diagnostics for pest management, fertilization and irrigation management, varietal policy, sowing of crops and crops).





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