Unigen® Seeds

AKIRA SEEDS®

Habanero AK-5901

Unigen Seeds Spain, heir to the former Akira Seeds, S.L. (founded in 2007), undertakes research, development and commercialization of hybrid vegetable seeds, which are trialed and tailored to different production areas. It belongs to the US company United Genetics Seeds Co., member of the Japanese group Kagome.

Unigen Seeds Spain operates in the domestic and international market under **AKIRA SEEDS** and **UNIGEN SEEDS** brands and it is integrated by seed professionals with extensive careers and proven experience.

Our company carries out research activities in the United States, Europe, Middle East and Asia, which are led by a multi-culture team. Thanks to this expertise, we can develop products adapted to different environments and conditions.

We aim to develop varieties with higher productivity and better quality, resistances and functional food application. We use traditional breeding techniques supported by advanced technologies to create unique products to the market.

We are leaders in the Spanish **hot pepper market** and feel proud to present you our wide portfolio in all types and colors: Carolina Reaper, Cayenne, Cherry, Dorset, Fresno, Habanero, Jalapeño, Padron, Rawit, Scotch Bonnet…

SCOVILLE SCALE

The Scoville Scale measures the spiciness or pungency of hot peppers, also known as chilis. These fruits from the genus *Capsicum* contain capsaicin, chemical component that stimulates the thermal receptor in the skin, especially the mucous membranes. The number of Scoville Heat Units (SHU) indicates the amount of capsaicin present.

Scoville Units	Pepper type
16 000 000	Capsaicin
2 800 000 – 3 180 000	Pepper X
2 900 000 – 3 000 000	Death Strain
1 900 500 – 2 480 000	Dragon's Breath
1 569 300 – 2 220 000	Carolina Reaper
1 300 000 – 2 000 000	Naga Viper, Trinidad Scorpion Butch T
855 000 – 1 041 427	Naga Jolokia, 7 Pod Chaguanas
350 000 – 580 000	Habanero Red Savina
100 000 – 350 000	Aji habanero, Scotch Bonnet, Merken, Datil chili, Capsicum chinense
100 000 – 200 000	Locoto or Rocoto or Manzano, Jamaican chili, piri piri
50 000 – 100 000	Thai chili, Malagueta chili, Chiltepin chili, Piquin chili
30 000 – 50 000	Red hot pepper or cayenne, yello Aji, Tabasco chili, Calabrese, some types of Chipotle chili
10 000 – 23 000	Serrano chili, Chile de Arbol, some types of Chipotle chili
5 000 – 15 000	Campana chili
5 000 – 8 000	Anaheim chili from Nuevo Mexico, Ibarra chili, Hungarian wax chili
2 500 – 5 000	Jalapeño chili, Padron pepper
1 500 – 2 500	Rocotillo chili, Sriracha sauce
1 000 – 1 500	Poblano chili
500 – 1 000	Anaheim chili
100 – 500	Pepper, pepperoncini, Banana pepper
0	Not hot pepper, green pepper

The number of Scoville units referenced in this catalogue are average values. Some variation may occur depending on growing conditions and dates.

HOT PEPPER Catalogue

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CAROLINA REAPER

CAROLINA REAPER RED

- Variety for protected cultivation
- Green to red color at full maturity
- Vegetative cycle: late
- Size: 4 x 4 cm
- Weight: 18 g
- Scoville Units: 2,220,000

CAROLINA REAPER YELLOW

- Variety for protected cultivation
- Green to yellow color at full maturity
- Vegetative cycle: late
- Size: 4 x 4 cm
- Weight: 18 g
- Scoville Units: 2,220,000

CAYENNE (Chili)

AK-5501

- Variety for protected cultivation
- Green color to red at full maturity
- Vegetative cycle: early
- Strong, very productive plant
- Size: 1 x 12 cm
- Weight: 25 g
- Thick flesh and great shelf life. Excellent also in green
- Scoville Units: 13,000

AK-5503

- Variety for protected cultivation
- Green to attractive lemon yellow color at full maturity
- Vegetative cycle: very early
- Mid vigor productive plant
- Size: 1 x 11 cm
- Weight: 15 g
- Scoville Units: 66,000

AK-5504

- Variety for protected cultivation
- Green to bright orange color at full maturity
- Vegetative cycle: early
- Open and productive plant, mid vigor
- Size: 1 x 11 cm
- Weight: 12 g
- Scoville Units: 45,000

AK-5505

- Variety for protected cultivation
- Green to red color at full maturity
- Vegetative cycle: early
- Great yielder
- Size: 2 x 12 cm
- Weight: 10 g
- Scoville Units: 10,000

AK-5506

- Variety for protected cultivation
- Green to red color at full maturity
- Uniform yield
- Size: 1 x 12 cm
- Weight: 15 g
- Scoville Units: 10,000

AK-5510

- Variety for protected cultivation
- TOKYO Asian type hybrid
- Vegetative cycle: late
- Very generative and vigorous plant that remains healthy over a long cycle
- Size: 1.5 x 14
- Weight: 15 g
- Striking red fruit with good tolerance to cracking
- Very hot

AK-5511

- Variety for protected cultivation
- Very uniform Asian type cayenne
- Vegetative cycle: late
- Very vigorous and generative plant for long cycle
- Deep red fruit with good resistance to cracking
- Size: 1.5 x 14.5 cm
- Weight: 55 g
- Very hot

AK-5513

- Variety for protected cultivation
- Very long Chinese cayenne
- Vigorous plant, excellent yielder
- Bright colored fruits, sometimes slightly curved
- Sweet-hot flavor becoming hotter when reaching walls and seeds
- Size: 3.5 x 23 cm

AK-5514

- Vigorous plant for early and mid transplants, with good radicular system that makes it behave well in winter
- Uniform fruit, very resistant to cracking
- Easy setting, suitable variety for greenhouse but also good enough for open field

BALRAM

- Variety for open field cultivation
- Erect, mid vigor plant with short internodes
- Excellent yielder also under adverse environmental conditions
- Conical and long fruits, 8-10 cm
- High capsaicin pulp
- HR/IR: TMV

BARBARIAN

- Variety for open field cultivation
- Very uniform fruits (15-18 cm length). Dark green to bright red color at full maturity
- Mid vigor plant, good foliar coverage. Excellent yielder, long-lasting harvest thanks to "cold set" genetics
- Suitable for fresh consumption, but also processing use to produce North African traditional Harissa sauce
- Very hot fruits at full maturity
- HR/IR: TMV

GAJAH

- Indian Cayenne type
- Variety for open field cultivation
- Mid vigor plant, excellent yielder
- Mid green to bright red color at full maturity
- "Cold set" genetics, good fruits also under low temperatures
- Slim, cylindrical fruits (10-12 cm length). Hot when fully ripe
- HR/IR: TMV

RED DEVIL

- Variety for open field cultivation
- Uniform, elongated fruits (up to 15 cm). Dark green to deep red color at full maturity, reaching a good hotness level
- Strong, vigorous and erect plant, long-lasting production
- Suitable for fresh consumption but also processing
- IR: PVY, CMV

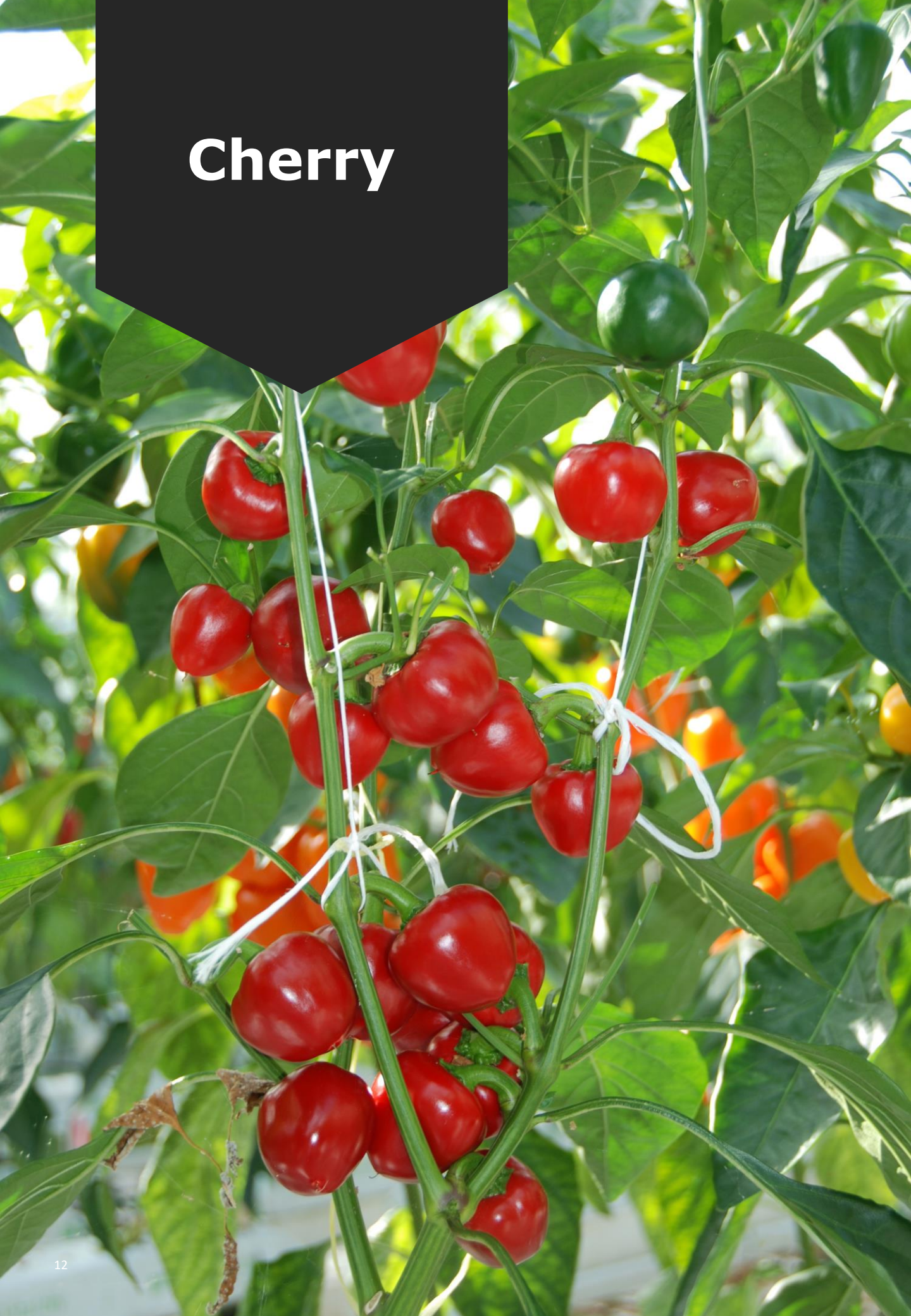
UG 6609

- Variety for open field cultivation
- Green to bright red color at full maturity
- Size: 1 x 16-18 cm
- Excellent yielder
- Vegetative cycle: early
- Suitable for canning, dried pepper and powder
- Vigorous plant
- Long shelf life
- Hot and aromatic flavor

UGIN 5907

- Variety for open field cultivation
- Light green to red color at full maturity, smooth surface
- First harvest in 60-65 days
- Size: 1.5–1.8 x 18-20 cm
- Medium pungency
- Use in green for fresh consumption
- Cold tolerant

Cherry



AK-5931 (Cherry Bomb)

- Variety for protected crop
- Deep green to bright red color at full maturity
- Uniform production
- Vegetative cycle: mid
- Great yielder
- Size: 4 x 4 cm
- Weight: 40 g
- Scoville Units: 20,000

CHERRY FIRE

- Variety for open field cultivation
- Dark green to deep red color at full maturity
- Strong, mid vigor plant, easy harvest
- Vegetative cycle: early
- Weight: 15-18 g
- Suitable for stuffed pepper processing
- Good capsaicin level
- HR/IR: TMV

CHERRY HOT

- Variety for open field cultivation
- Dark green to deep red color at full maturity
- Continued harvest, 2-3 months under the right conditions
- Vegetative cycle: early
- Size: 3-4 cm diameter
- Weight: 15-18 g
- Uniform and very hot fruits
- Suitable for processing transformation: pickling and stuffing
- HR/IR: TSWV

Dorset

AK-5924

- Variety for protected and open field cultivation
- Green to red color at full maturity
- Vegetative cycle: late
- Size: 0.8 x 2.5 cm
- Weight: 10 g
- Scoville Units: 1,000,000

AK-5941

- Varity for protected and open field cultivation
- Green to red color at full maturity
- Vegetative cycle: mid-early
- Size: 1 x 4 cm
- Weight: 15 g
- Large Dorset, very generative variety
- Scoville Units: 1,000,000

Fresno

FRESNO RED

- Variety for protected and open field cultivation
- Bright green to red color at full maturity
- Pointed shape, erect fruit
- Strong plant, good vigor
- Vegetative cycle: mid
- Size: 3 x 5 cm
- Weight: 20 g
- Scoville Units: 36,000

FRESNO YELLOW

- Variety for protected and open field cultivation
- Bright green to attractive lemon yellow at full maturity
- Pointed shape, erect fruit
- Strong plant, high vigor
- Vegetative cycle: late
- Size: 2.5 x 4 cm
- Weight: 15 g
- Scoville Units: 42,000

FRESNO ORANGE

- Variety for protected and open field cultivation
- Bright green to orange color at full maturity
- Pointed shape, erect fruit
- Strong plant, high vigor
- Vegetative cycle: mid-late
- Size: 3 x 5 cm
- Weight: 20 g
- Scoville Units: 55,000

HABANERO

AK-5901

- Ajuma type
- Variety for protected and open field cultivation
- Dark green to bright red color at full maturity
- Vegetative cycle: mid
- Fast germination seed
- Easy and uniform setting
- Size: 3.5 x 3.5 cm
- Weight: 25 g
- Scoville Units: 350,000

AK-5916

- Ajuma type
- Variety for protected and open field cultivation
- Dark green to bright yellow color at full maturity
- Vegetative cycle: mid
- Size: 3.5 x 3.5 cm
- Weight: 15 g
- Scoville Units: 350,000

AK-5917

- Ajuma type
- Variety for protected and open field cultivation
- Dark green to orange color at full maturity
- Vegetative cycle: mid
- Size: 3 x 3 cm
- Weight: 15 g
- Scoville Units: 350,000

AK-5918

- Ajuma type
- Variety for protected and open field cultivation
- Dark green to bright brown color at full maturity
- Vegetative cycle: mid
- Remarkably late setting
- Size: 3.5 x 3.5 cm
- Weight: 20 g
- Scoville Units: 350,000

AK-5919

- Ajuma type
- Variety for protected and open field cultivation
- Striking new pink color
- Vegetative cycle: mid
- Size: 3.5 x 3.5 cm
- Weight: 20g
- Scoville Units: 400,000

AK-5920

- Ajuma type
- Variety for protected and open field cultivation
- Light green to snow white color at full maturity
- Vegetative cycle: mid
- Size: 3.5 x 3.5 cm
- Weight: 20 g
- Scoville Units: 350,000

AK-5921

- Ajuma type
- Variety for protected and open field cultivation
- Fruits keep a light green color at full maturity
- Vegetative cycle: mid
- Size: 3.5 x 3.5 cm
- Weight: 20 g
- Scoville Units: 300,000

AK-5976

- Variety for protected and open field cultivation
- Large-caliber variety with slightly longer production than AK-5901
- Very vigorous and healthy plant
- Exquisite and very penetrating aroma

HABAHOT

- Variety for open field cultivation
- Very hot hybrid bred from the traditional Habanero but with remarkably higher productivity
- Light green to orange and then red color at full maturity
- Very vigorous and productive plant, adapted to the most different areas
- Vegetative cycle: mid-early
- One of the hottest peppers in the market
- Suitable for fresh consumption and also as dried pepper and powder
- HR/IR: TMV

JALAPEÑO

AK-5903

- Variety for protected and open field cultivation
- Dark green to bright red color at full maturity
- Very productive variety, oval shaped
- Quite strong plant with open structure
- Vegetative cycle: early
- Size: 2 x 6 cm
- Weight: 30 g
- **No cracking**
- Scoville Units: 34,000

AK-5948

- Variety for protected and open field crop
- New color in Jalapeño
- Vegetative cycle: late
- Size: 1.5 x 5 cm
- Weight: 25 g
- **No cracking**
- Scoville Units: 5,000

AK-5960

- Variety for protected and open field cultivation
- Dark green to red color at full maturity
- Vegetative cycle: mid
- Size: 2 x 6 cm
- Weight: 30 g
- **No cracking**
- Scoville Units: 5,000

NEW PARK

- Variety for open field cultivation. Good production in autumn-winter cycle in greenhouse
- Very hot fruit, mid green color
- Thick walls
- Uniform fruit, easy and continued harvest
- Excellent for fresh market and processing

PICADERO

- Variety for open field cultivation
- Mid size Jalapeño for processing market
- Fruit length: 7-9 cm
- Weight: 55-60 g
- Mid green color to deep red color at full maturity
- Very hot variety
- Vigorous, very productive plant
- Very suitable product for sauces and purée thanks to its pungency and pulp thickness

JALADURO

- Variety for open field cultivation
- Hybrid bred from Central America ecotypes
- Very early cycle
- Deep green to dark red at full maturity
- Conical fruits (2-3 x 8-9 cm) with "Easy snap" character. Weight: 40 g
- Compact plant with short internodes, good rusticity (thanks also to tolerance to *phytophthora capsici*) and excellent yield
- HR/IR: TMV, Pc

PADRON

AK-5909

- Variety for protected cultivation
- Vegetative cycle: late
- Size: 1.5 x 5 cm
- Weight: 20 g
- Scoville Units: 49,000

PADRON

- Variety for open field cultivation
- Mid green to deep red color at full maturity
- Vegetative cycle: early
- Strong plant, long-lasting production
- Size: 2.5-3 x 8-9 cm
- Weight: 30-40 g
- HR/IR: TMV, TSWV

PUBESCENS

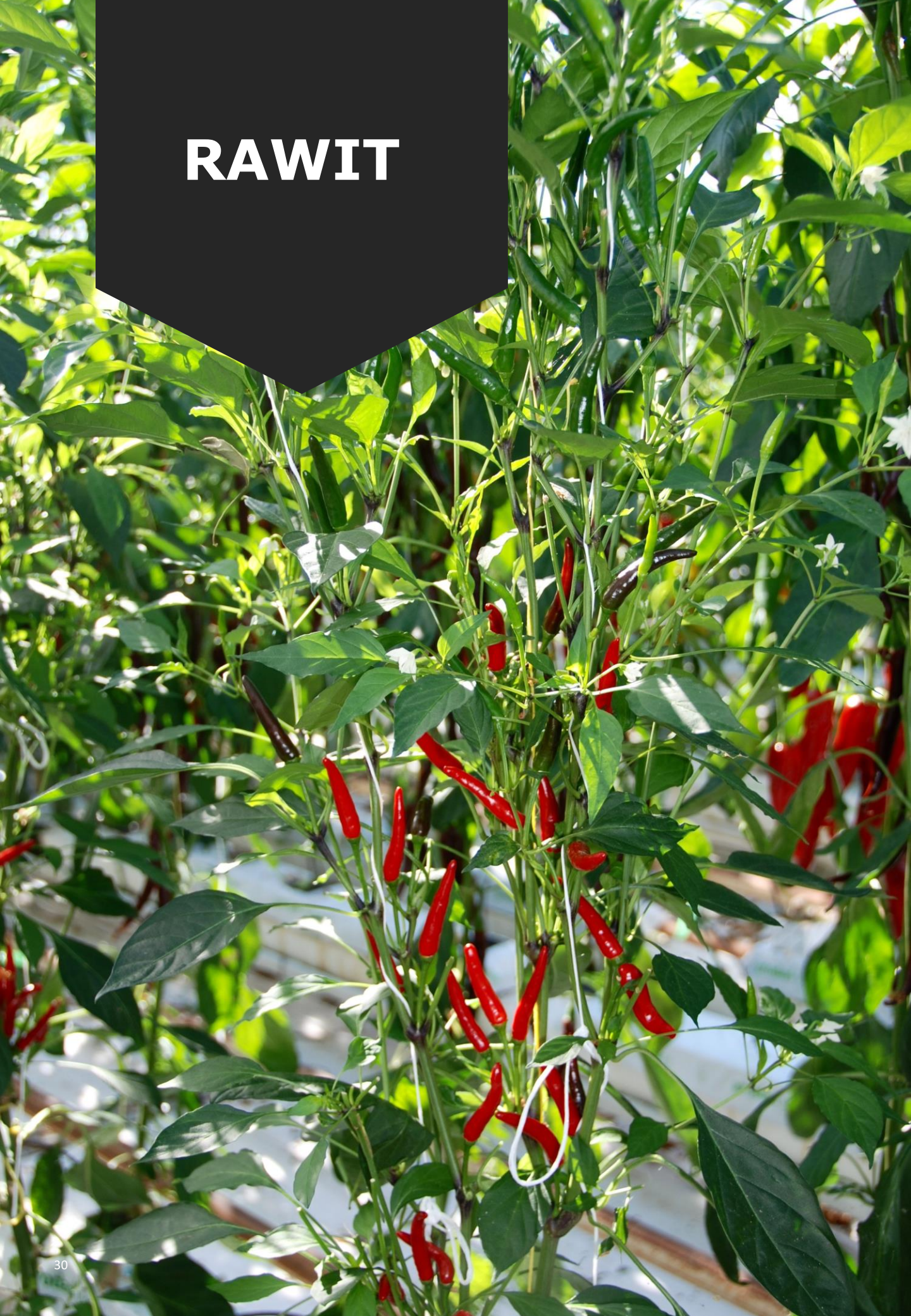
PUBESCENS RED

- Variety for protected cultivation
- True Pubescens variety: pubescent leaves, purple flowers, black seeds
- Vegetative cycle: very late
- Veri vigorous crop
- Size: 3 x 3 cm
- Weight: 25 g
- Scoville Units: 200,000

PUBESCENS YELLOW

- Variety for protected cultivation
- True Pubescens variety: pubescent leaves, purple flowers, black seeds
- Vegetative cycle: late
- Very vigorous crop
- Size: 3 x 3 cm
- Weight: 25 g
- Scoville Units: 200,000

RAWIT



AK-5910

- Variety for protected and open field cultivation
- Very hot Thai type fruits
- Green to red color at full maturity
- Semi-determinant plant
- Vegetative cycle: late
- Size: 0.5 x 4 cm
- Weight: 5 g
- Scoville Units: 50,000

AK-5961

- Variety for protected and open field cultivation
- Very hot Thai type fruits
- Green to very attractive orange color at full maturity
- Semi-determinant plant
- Vegetative cycle: late
- Size: 0.5 x 4 cm
- Weight: 5 g
- Scoville Units: 40,000

AK-5974

- Variety for protected and open field cultivation
- Very hot Demon type fruits
- Very healthy and vigorous plant with few leaves
- Deep red fruits for single picking
- Size: 1 x 8 cm

Scotch Bonnet

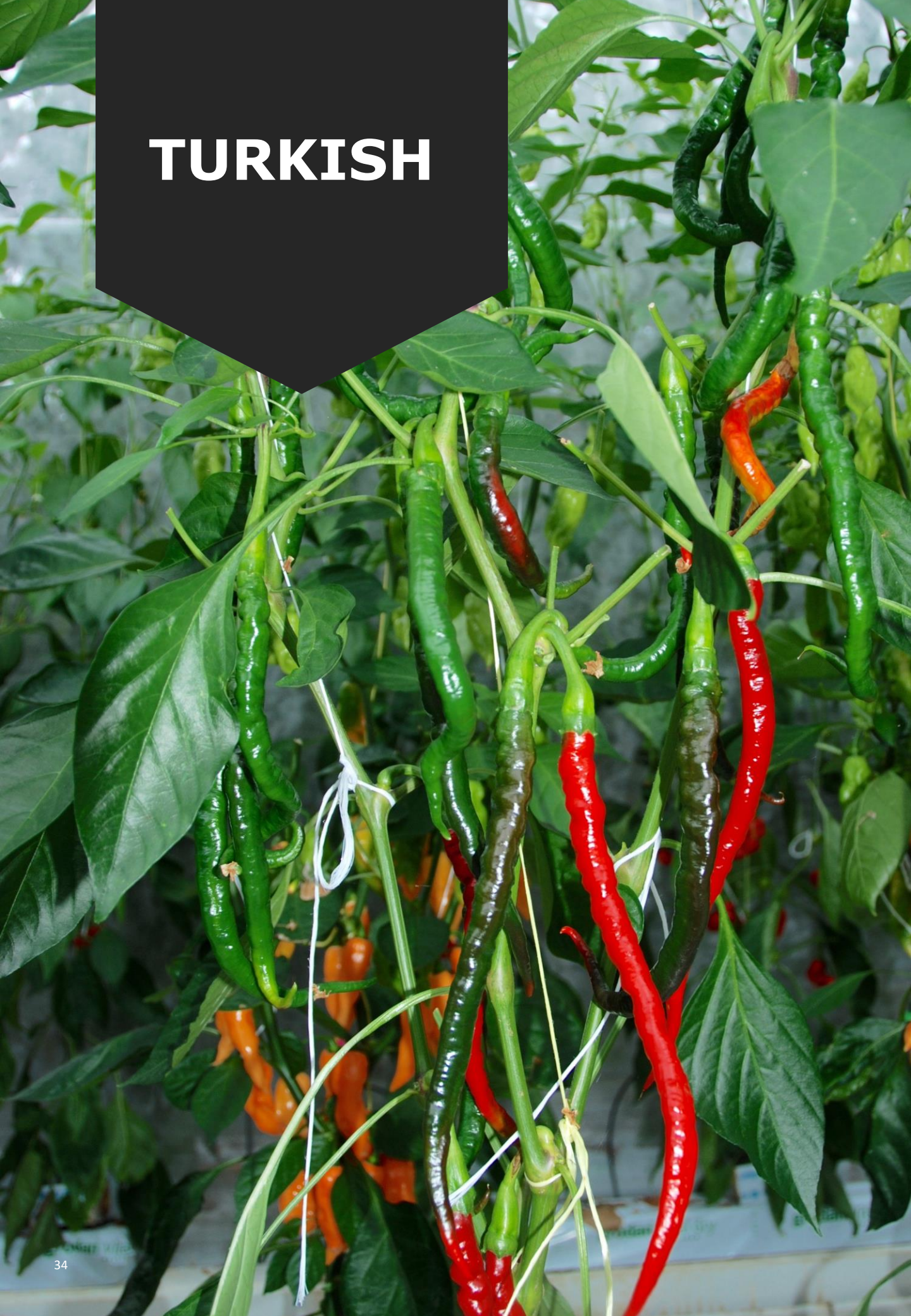
AK-5922

- Variety for protected and open field cultivation
- Green to red color at full maturity
- Vegetative cycle: mid
- Size: 4 x 4 cm
- Weight: 20 g
- Scoville Units: 200,000

AK-5923

- Variety for protected and open field cultivation
- Green to yellow color at full maturity
- Vegetative cycle: mid
- Size: 4 x 4 cm
- Weight: 20 g
- Scoville Units: 200,000

TURKISH



AK-5925

- DEMRE type
- Variety for protected crop cultivation
- Harvest in green and red
- Vegetative cycle: late
- Size: 1 x 30 cm
- Peso: 75 g

AK-5929

- CHARLESTON type
- Variety for protected cultivation
- Mint green to red color at full maturity
- Vegetative cycle: early
- Size: 3 x 14 cm
- Weight: 100 g
- Scoville Units: 10,000

OTHER TYPES

AK-5902 (SANTA FE)

- Variety for protected cultivation
- Vegetative cycle: early
- Size: 2 x 5 cm
- Weight: 25 g
- Scoville Units: 31,000

AK-5926 (ANCHO)

- Variety for protected cultivation
- Dark green/brown color
- Vegetative cycle: late
- Size: 7 x 10 cm
- Weight: 70 g
- Scoville Units: 1,000

AK-5939 (SERENADE TYPE)

- Variety for protected cultivation
- Tip shape similar to Fresno
- Bright green to deep red color at full maturity
- Strong plant, short crop
- Vegetative cycle: early
- Very productive variety, with excellent sanity
- Excellent setting under high temperatures
- Size: 2 x 8 cm
- Weight: 35 g
- Scoville Units: 10,000

AK-5942 (SCORPIO)

- Variety for protected cultivation
- Vegetative cycle: mid
- Size: 3 x 3 cm
- Weight: 20 g
- Scoville Units: 2,000,000

AK-5946 (PIQUILLO)

- Variety for protected and open field cultivation
- Vigorous plant, good foliar coverage
- Two-sided fruits (sometimes three)
- Vegetative cycle: early
- Size: 5 x 7-9 cm
- Weight: 35-45 g
- Slim flesh, deep red color, slight capsaicin content
- Excellent quality for processing market

EROICO (CONICAL)

- Very popular variety in Eastern Europe and North Africa
- Variety for open field cultivation
- Conical, elongated and pointed fruits (18-20 cm)
- Pale green/yellow to red/orange color at full maturity
- Very hot thick pulp
- Strong plant, excellent yielder. Good setting even under hot temperatures
- For fresh consumption and processing
- HR/IR: TMV

ORNAMENTALS

And also, a wide assortment of edible ornamental hot peppers in Cayenne, Drip, Fresno Habanero and Jalapeño types

DEFINITIONS

Immunity	Means not subject to attack or infection by a specific pest or pathogen.
Resistance	Is the ability of a plant variety to restrict the growth and development of a specified pest pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure.
High Resistance (HR)	*Two levels of resistance are defined:* Plant varieties that highly restrict the growth and development of the specific pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.
Intermediate Resistance (IR)	Plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to highly resistant varieties. Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.
Susceptibility	Is the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

RESISTANCE CODES

CMV:	*Cucumber mosaic virus* (Cucumber mosaic)
Pc:	*Phytophthora capsici* (Buckeye fruit and root rot)
PVY:	*Potato Y virus* (Potato Y)
TMV:	*Tobacco mosaic virus* (Tobacco mosaic)
TSWV:	*Tomato spotted wilt virus* (Tomato spotted wilt)
Xcv:	*Xanthomonas campestris pv. vesicatoria* (Bacterial spot)

REMARKS: Descriptions, recommendations, pictures and information related to disease resistance included in this catalogue are adjusted to the results of our own trials and practical experience. Circumstances such as local environmental conditions and growing practices may have an important impact on the final result of the crop. Buyer is the sole responsible for determining whether the product is suitable for the intended crop. Unigen Seeds Spain provides this information to help the buyer, and no guarantees can be derived from it. Unigen Seeds Spain cannot be held liable to the buyer for the results differing from the information included in this catalogue.

"Hot pepper specialists"

Unigen Seeds Spain, S.L.U.

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