HEMGENETICS

Breeding to grow your business

SEED CATALOG

Flowers,
Ornamental Edibles
& Herbs

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Cover photo:
*Limbo *GP** *picotee colors*

Key to lay-out

NON-GMO Statement
All flower seed varieties bred by Hem Genetics and listed in this catalog have been created by using traditional breeding methods without the use of genetic modification.

Low Grow Approved- Eco Friendly Production
Varieties listed in this catalog and marked with the Low Grow Approved stamp are natural dwarf varieties bred by Hem Genetics through the use of traditional breeding methods. These varieties need little or no plant growth retardants (PGRs), which enable a grower to opt for a much more sustainable, eco-friendly production.

New
Varieties marked with the NEW logo are brand new series or additional colors to the existing series listed in this catalog.

Fleuroselect Gold Medal
The Fleuroselect Gold Medal is awarded to novel varieties that have been tested by expert and independent judges and proven to clearly supersede existing varieties in terms of breeding innovation and beauty.
Fleuroselect's Gold Medal Winning varieties are lavishly displayed in more than forty public gardens across in Europe, the U.S.A. and Asia. These varieties are the trendsetters of the moment, and represent the absolute top in breeding and beauty.

Fleuroselect Approved Novelty
New varieties which have been recognised by the Fleuroselect judges to be sufficiently new and different versus existing cultivars and which have passed the rigorous requirement for uniformity are granted **Novelty Protection**. These innovative cultivars are protected by the membership from reproduction.

All America selections Winner
The AAS award is awarded to novel flower seed varieties that have been tested by expert and independent judges on various trials grounds in North America. The award recognises a flower seed variety for significant achievement superior to others in the market.

National Garden Bureau – NGB
Hem Genetics is proud member of NGB. National Garden Bureau is a non-profit organisation dedicated to educate, inspire and motivate people in North America to increase their use of plants in homes, gardens and workplaces, by being the marketing arm of the horticulture industry.

New and improved 2019

NEW

Patio Tomato

Funnyplums	red
Funnyplums	orange
Funnyplums	creamy-yellow
Plumbrella	red
Plumbrella	orange
Plumbrella	creamy-yellow
Plumbrella	rosy-pink

Melissa officinalis - Orange Balm

Mandarina	orange scented

Tagetes filifolia

Dropshot	licorice, anise flavor

Thymus fragrantissimus - Orange Thyme

Orangelo	orange scented

Verbena bonariensis

Purple Haze	lavender to light-purple

Verbena rigida

Dazzling nights	purple

Lavandula augustifolia

Promise	violet blue

Geum coccineum

Orange Queen	orange

Dianthus chinensis

Diana	Loving white

Vinca F1

Solar avalanche	blueberry

Dianthus interspecific

Supra	scarlet

Petunia grandiflora dwarf

Limbo GP	violet picotee
	Picotee mixture

Viola cornuta

Corina	purple ice

IMPROVED

Dianthus interspecific

Supra	salmon

Petunia grandiflora dwarf

Limbo GP	peach

Viola cornuta

Corina	violet flare

Pansy F1

Cello	orange
Cello	scarlet
Cello	primrose blotched

HEM TECHNOLOGIES

Hem Genetics combines the latest and best methods of seed enhancement through our newly established Seed Technologies department, with one goal in mind, *improved seed performance*.

Hem Technologies can apply the newest and most effective methods to upgrade our seed products, accomplished through the following treatments:

Pelleting
Pellets from Hem Technologies melt direct after contact with a drop of water. We utilize a yellow color for better optical recognition to allow for immediate spotting of sowing errors. It contains an organic ingredient that protects against fungi and bacteria.

Our tests and trials conclude that we have developed a pellet that shows extremely good germination results. This pelleting process is available for various species, including our Petunia, Dianthus, Ageratum and other species like Begonia.

Upgrading and Priming
Various upgrading techniques contribute to achieving the optimum in seed quality enabling growers to produce their crops more efficiently and reliably.

Upgrading
With the demanding needs of growers in today's market, we create seed products that combine multiple technologies, including priming, breaking dormancy, density separation and seed sizing to enhance seed germination in both uniformity and speed. For example, regular raw Pansy seed will germinate in 5 to 7 days, where Pansy seed run through our enhancement program will germinate in approximately 3 days, or half the normal time. This shortens time in germination chambers, for product rotation, and also gives much better uniformity to the finished plug trays.

Priming
Priming seeds improves uniformity and imparts better tolerance of extreme or less-than-optimal growing conditions. It effectively increases the speed of germination to a higher level. This treatment is available for Viola, Pansy, Primula, Verbena hybrid and more species.

Seed coating
Hem Technologies newly developed film coating process is applicable to a wide range of seeds. The focus was for development of a complete process that would increase germination and protect against fungi and bacteria during the germination process.

If you have questions or wish to receive further information about Hem Technologies, we invite you to contact us.

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Low Grow versus standard petunia

Sustainable Production From Seed

HEMGENETICS

Hem Genetics Low Grow varieties have lots to offer the professional grower in every respect. And the same goes for links further along the chain too. With their compact habit and low levels of stretch, Hem Genetics Low Grow varieties need little or no growth regulators. They are also much less labour-intensive to grow.

Hem Genetics was set up in 1998 as a sister company to Hem Zaden. Since then we have brought countless stand-out seed-raised pot and bedding plants to market. Our Mambo and Limbo petunias, Nano geraniums and Reddy salvias are head and shoulders above the rest, despite their compact habit.

Because they need little or no plant growth regulators, they are much less labour-intensive and therefore considerably more efficient to grow and of course that delivers significant savings. But even more importantly, it also means that Low Grow varieties make for a much more sustainable crop. And that's precisely what the market demands these days. Planted in borders, containers, gardens and parks, these plants will give the end-user pleasure all season long – and with the added benefit of being very low maintenance.

Countless growers across the globe have got the Low Grow message and are now producing much more sustainably. Don't forget that these varieties come from seed. Getting these plants off to a cleaner, virus-free start is an important contributing factor in sustainable production.

Our Low Grow series also stand out clearly in flower trials. Their innovative nature is rated highly by industry associations like Fleuroselect and All America Selections. We are one of the few companies in the world that put so much time and effort into developing sustainable series.
A further expansion of our Low Grow programme is planned.

Keep in touch with our latest developments on our website www.hemgenetics.com or follow us on Facebook.

ANNUALS

tall, Blue Planet

Aloha - Blue Planet AGERATUM

F1 Ageratum houstonianum

dwarf, Aloha colors:
blue
white

dwarf, Aloha
Aloha is early to flower and suited for growing in packs and in 10 cm (4 in.) pots. It is an excellent type for mass production. The strong vigor in the garden makes Aloha an excellent garden performer.

- *Early to flower*
- *Suited for growing in packs and pots*
- *Excellent for mass market production*
- *Strong vigor*
- *Excellent garden performance*

Life cycle	annual
Use	packs and pots 10 cm (4 in.)
Height in pot	7-10 cm (3-4 in.)
Garden height	15-20 cm (6-8 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	7,400 S/gram, (210,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

tall, Blue Planet
Blue Planet grows tall with attractive large flowers. It grows up to about 70 cm (28 in.), forming strong sturdy stems with numerous branches. This variety shows flower power in the garden, is very suitable for landscaping purposes and is also an outstanding ageratum for cut flower production. Low-energy crop, which can be produced indoors as well as outdoors.

- *Tall growing with large blue flowers*
- *Great for garden sales in gallon pots*
- *Performs well in landscape as a feature plant*
- *Perfect as thriller component in mixed containers*
- *Strongly branching*
- *Sturdy stems*

Life cycle	annual
Use	cutflower, landscaping
Garden height	75 cm (2.5 ft.)
Garden width	20-30 cm (8-12 in.)
Seed count	6,000 S/gram, (170,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

dwarf, Aloha blue

dwarf, Aloha white

tall, Blue Planet

orchid flame

peach flame

red flame

bronze

lavender blush

mauve

orange

orange & yellow

orchid

peach

red

red & yellow

rose

violet

white

yellow

Snappy™ ANTIRRHINUM - SNAPDRAGON

F1 Antirrhinum majus

Dwarf Antirrhinum Snappy™ series is extremely uniform in both time to flower as well as plant habit across the entire series. With strong basal branching, the plants form dense mounds of color in the landscape, with a wide range of colors available in the series. Excellent for solid beds, mixed borders, and mixed patio containers, they will flower from early spring well after the first frosts of autumn. The Dallas Arboretum rated Snappy the best overall series of dwarf Snapdragon.

- *Early to flower*
- *Compact plant habit*
- *Strong basal branching*
- *Uniform bloom time*
- *Excellent garden performance*
- *Great season extender early and late*
- *Withstands extremely well overnight frosts and freezing*

Life cycle	annual
Use	packs and pots
Garden height	20-25 cm (8-10 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	6,500 S/gram, (184,000 S/oz)
Seed form	normal
Germination rate	80%

Snappy ™ colors:

orchid flame
peach flame
red flame

bronze
lavender
lavender blush
mauve
orange
orange & yellow
orchid
peach
red
red & yellow
rose
violet
white
yellow
tricolor mixture
full mixture

tricolor mixture

full mixture

appleblossom

bronze shades

peach

rose

peach

Twinny™ double flowered ANTIRRHINUM - SNAPDRAGON

F1 Antirrhinum majus

Twinny™ is the first and only semi-double flowered F1 hybrid dwarf Antirrhinum series on the market. Twinny is recommended for use in the landscape, 10-12 cm (4-5 in.) pots and in mixed containers. They also look spectacular in a large container of only Twinny in complementary colors. Its tolerance to hot and wet weather conditions results in exceptional garden performance. Twinny Peach is an All-America Selections Winner.

- *Attractive semi-double to double flowers*
- *Open-faced or peloric flower form*
- *Strong basal branching*
- *Extremely long garden life with excellent performance*
- *Excellent for landscaping*

Twinny™ colors:

appleblossom
bronze shades
peach
rose
violet
white
yellow shades
full mixture

Life cycle	annual
Use	pots 10-20 cm (4-8 in.), gallon containers, color bowls, landscaping
Garden height	25-30 cm (10-12 in.)
Garden width	20-25 cm (8-10 in.)
Seed count	6,500 S/gram, (184,000 S/oz)
Seed form	normal
Germination rate	80%

violet

white

yellow shades

Quicksilver

Silverado

Dusty Miller CINERARIA

Senecio, Cineraria maritima

Dusty Miller colors:

Quicksilver™
Silverado

Quicksilver™
Dusty Miller Quicksilver™ is a new addition to the Hem Genetics Low Grow assortment. It has a basal branching, natural dwarf plant habit and stays more dwarf than Silverado or older Silverdust. From the early stage, Quicksilver develops finely indented silvery gray colored leaves. The low grow and uniform plant habit make Quicksilver perfect for use in packs, small pots and mixed containers. Due to its excellent garden performance it's also very suitable for borders and the landscape.

Silverado
Silverado develops silvery gray foliage on uniform plants. At an early stage Silverado is more green colored, which later turn into silvery gray. The leaves are slightly more coarse in shape than Quicksilver. The size and uniform plant habit make Silverado suitable for use in beds and borders.

- *Perennial for annual use*
- *Silvery gray finely indented foliage*
- *Uniform plant habit*
- *Perfect for adding contrast to beds, borders ans mixed containers*
- *Graded seeds for more even germination*

Life cycle	annual - perennial
Use	pack, pots, beds and borders
Garden height	25-30 cm (10-12 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	2,100 S/gram, (60,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

Quicksilver (L), Silverado (R)

crimson picotee

lavender picotee

scarlet picotee

blueberry

crimson

pink

purple centred white

red centred white

rose shades

salmon

scarlet

white

loving white

picotee mixture

lavendina mixture

Diana DIANTHUS

F1 Dianthus chinensis

Dianthus Diana combines earliness and a compact plant habit with large single flowers in a wide range of colors. Diana is suited for pack and pot production. Planted out in the garden, it continues to form masses of large blooms on a low growing plant. The new color loving white has blushing white flowers with a magenta-crimson center.

- *Extra early to flower*
- *Suited for production in packs and 10 cm (4 in.) Pots*
- *Compact plant habit with large flowers*
- *Wide range of colors*

Life cycle	annual
Use	pack, pots, outdoor containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	1,100-1,250 S/ gram, (30,000-35,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

Diana colors:

crimson picotee
lavender picotee
scarlet picotee
picotee mixture
(includes all picotee colors)

loving white *(blushing white)* NEW
blueberry
crimson
pink
purple centred white
red centred white
rose shades
salmon
scarlet
white

lavendina mixture
(includes white, blueberry and lavender picotee)
full mixture
select mixture
(includes white, scarlet, crimson and blueberry)

crimson

select mixture

salmon

white

Grace double flowered DIANTHUS

F1 Dianthus chinensis

Dianthus Grace is the first and only double flowered dwarf chinensis series on the market. Like its single flowered sister the Diana series, it is a good strain for production in packs and pots. Branching is strongly basal, and the plants are smothered in striking double flowers. In the garden, Grace remains low growing and its carnation like flowers put on their show throughout the season.

- *Early to flower*
- *Basal branching*
- *Suited for production in 10-12 cm (4-5 in.) Pots*
- *Double, carnation-like flower*
- *Strong garden performance*

Life cycle	annual
Use	pack, pots, outdoor containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	750-1.200 S/ gram, (21.000-34.000 S/oz)
Seed form	normal
Germination rate	85%

Grace colors:

deep rose
salmon
white

full mixture

deep rose

full mixture

cherry picotee

crimson picotee

lilac picotee

purple picotee

crimson

pink

purple

red

rose

scarlet

strawberry

red

violet

white

Chiba™ DIANTHUS

F1 Dianthus interspecific

The Chiba™ series is extra early flowering and has a compact, basal branching plant habit. In this Dianthus category, Chiba is the most compact series 20-25 cm (8-10 in.). The flowers are 3 cm (1.25 in.) in diameter. The short and strong flower stems show clusters of well-rounded flowers. Chiba requires less growth regulators and is heat, rain and cold resistant.

- *The earliest flowering series of dianthus chinensis x barbatus*
- *Suited for production in packs and 10-12 cm (4-5 in.) Pots and containers*
- *Basal branching plant habit*
- *Suited for autumn and spring sales*
- *Heat, cold and rain resistant*
- *Excellent garden performance*

Life cycle	annual
Use	pack, pots, outdoor containers, beds and borders
Height in pot	20-25 cm (8-10 in.)
Garden height	30-35 cm (12-14 in.)
Garden width	20-25 cm (8-10 in.)
Seed count	1,100-1,250 S/ gram, (30,000-35,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

Chiba™ colors:

cherry picotee
crimson picotee
lilac picotee
purple picotee
auricula mix *(mixture of picotee colors)*

crimson
pink
purple
red
rose
scarlet
strawberry
violet
white
full mixture

auricula mix

DIANTHUS Elegance
see page 74-75 (Perennials)

DIANTHUS Supra
see page 76-77 (Perennials)

yellow

Enorma GAZANIA

Gazania Rigens

Enorma shows large flowers, 10-12 cm/4-5" across, on strong flower stems and a vigorous but moderate plant habit. Enorma has glossy dark green foliage and is more disease resistant than fuzzy leaved types in wet or humid climates because its foliage doesn't trap water. In trials across the US Enorma has proved to be an exceptional performer in warm climate areas for winter landscapes.

- *Upright habit with large flowers*
- *Strong flower stems*
- *Uniform flowering*
- *Vigorous but moderate plant habit*
- *Ideal for a larger pot size, mixed containers and beds*

Enorma colors:

orange with ring
red with ring
yellow with ring
orange
vanilla
yellow
full mixture

Life cycle	annual
Use	larger pot size, beds, borders and mixed containers
Height in pot	20-25 cm (8-10 in.)
Garden height	25-30 cm (10-12 in.)
Garden width	20-25 cm (8-10 in.)
Seed count	400-430 s/gram, (11,340-12.190 s/oz)
Seed form	profi seed
Germination rate	85%

orange with ring

red with ring

yellow with ring

orange

vanilla

yellow

appleblossom

pink

red

deep rose

rose

rose bicolor

glow

salmon

white

pink bicolor

star

full mixture

Apache GERANIUM

F1 Pelargonium x hortorum

Geranium Apache is early flowering and is extreme basal branching. Apache is vigorous yet compact in growth and develops a profusion of large flowers on compact plants. Apache has the best features of both multiflora and standard geraniums and will outperform most seed raised geraniums. Apache grows well in plugs, packs and pots.

- *Early flowering and extremely basal branching*
- *Large flowers on compact plants*
- *Vigorous yet compact in growth*
- *Flowering all through the season*
- *Excellent in all planting situations*

Life cycle	annual
Use	pots, outdoor containers, beds and borders
Height in pot	15-20 cm (6-10 in.)
Garden height	30-35 cm (12-14 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	180-250 S/gram, (5,100-7,000 S/oz)
Seed form	normal and coated
Germination rate	85%

Apache colors:

appleblossom
deep rose
glow
pink
pink bicolor
red
rose
rose bicolor
salmon
scarlet
star
violet
white
full mixture

violet

scarlet bicolor

violet

red

appleblossom

deep rose

pink

salmon

scarlet

white

Nano™ natural dwarf GERANIUM

F1 Pelargonium x hortorum

The Geranium Nano™ series has a genetically or natural dwarf plant habit. Nano does not stretch, which makes the use of plant growth regulators (PGRs) unnecessary. It develops a profusion of large flowers in combination with attractive dark leaves and stays compact all season long.
Geranium Nano is unique because it's the only compact growing geranium series on the market!

- *No use of plant growth regulators (PGRs)*
- *Non-stretching natural dwarf plant habit*
- *Extra large flowers on compact plants*
- *Extra early flowering*
- *Great performance in containers*
- *Profuse quantities of flowers for color all season long*
- *ECO friendly production*

Nano™ colors:

appleblossom
deep rose
pink
red
salmon
scarlet
scarlet bicolor
violet
white
full mixture

Life cycle	annual
Use	packs, pots, beds and borders
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	20-25 cm (8-10 in.)
Seed count	180-250 S/gram, (5,100-7,000 S/oz)
Seed form	normal and coated
Germination rate	85%

full mixture

orange star

red star

rose star

violet star

blush pink

bright eye

burgundy

cardinal

coral

lavender blush

lilac

pink

red

rose

rose picotee

violet

white

Balance™ IMPATIENS

F1 Impatiens walleriana

Balance™ give a very good garden performance, is easy to produce and is very suitable for pot and pack production. It is uniformly blooming, very well branched and adapts well in different growing conditions.

- *Suited for production in pack and pots*
- *Compact, well branched mounded plant habit*
- *Large attractive flowers*
- *Free flowering on non-stretching plants*
- *Uniform germination*
- *Excellent garden performer*

Life cycle	annual
Use	packs, pots, baskets, beds and borders
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	1,400-2,000 S/ gram, (39,800-56,700 S/oz)
Seed form	normal
Germination rate	90%

Balance™ colors:

orange star
red star
rose star
violet star
Star Balance - *mixture of star colors*

blush pink
bright eye
burgundy
cardinal
coral
lavender blush
lilac
pink
red
rose
rose picotee
violet
white

Balance mixtures

Cool Balance	*designer mix of violet, burgundy, cordinal and white*
Full Balance	*mixture of all colors*
Patriot Balance	*mixture of red, white and lavender blush*
Perfect Balance	*uniform formula mixture of limited color range*

Full Balance

carmine

navy blue

pink

raspberry

rose

white & rose

white

Villa Roma LATHYRUS - SWEET PEA

Lathyrus odoratus

The Empress in Compact Sweet Peas

Villa Roma is an exciting dwarf bush type sweet pea with sweet scenting blooms. This type of sweet pea flowers abundantly and is ideal for container gardening. Besides the home garden market it also has good potential for the professional grower market. With a neatly mounded plant habit it grows about 35 cm (14 in.) tall, which makes it suitable for growing in patio pots and/or large containers. This makes Villa Roma fit in perfectly with a summer flowering plant program. Villa Roma scarlet is a Fleuroselect Gold Medal Winner.

- *early flowering series*
- *unique compact plant habit*
- *suited for pots, containers and hanging baskets*
- *excellent garden performance*

Life cycle	annual
Use	pots, outdoor containers, beds and borders
Height in pot	20-25 cm (8-10 in.)
Garden height	35-40 cm (14-16 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	12 S/gram, (340 S/oz)
Seed form	normal
Germination rate	80%

Villa Roma colors:

carmine
navy blue
pink
raspberry
rose
scarlet
white & rose
white
mixture

Villa Roma scarlet

Minty Ice - **Intro 2020**

Lavandula

Lavandula Multifida

Blue Torch

Minty Ice - **Intro 2020**

Beautiful Lavandula multifida is a fast-growing tender perennial. It flowers the first year from sowing and can produce a flowering gallon pot in only 15-16 weeks from sowing. It has finely cut silvery-grey fern-like oregano scented foliage and stems growing up to 40-6- cm/16-23 in., topped by attractive 6 cm/2.5 in. flower spikes. This perennial Lavandula is not hardy as most other Lavandula species, USDA zones 7-10. It does very well in the landscape as feature plant or as a thriller component in mixed containers. It flowers all summer to frost.
In addition to the violet-blue color, Blue Torch, we expect to be able to introduce a lavender blushing white version in 2020, called Minty Ice.

- *Tender perennial, hardiness to USDA zones 7-10*
- *Silvery-grey fern-like oregano scented foliage*
- *Suited for gallon pots and mixed containers*
- *Fast growing and free flowering*
- *Perfect presentation in the landscape*

Life cycle	perennial
Use	larger pot sizes, gallon containers, beds and borders
Height in pot	40-60 cm (16-23 in.)
Garden height	60-70 cm (23-28 in.)
Garden width	50-60 cm (20-23 in.)
Seed count	1.400 s/gram, (39.700 s/oz)
Seed form	profi seed
Germination rate	80%

Blue Torch

Blue Torch

flame

Chica™ FRENCH MARIGOLD

Tagetes patula

The full double crested flowers of Chica™ are larger in size than other French Marigolds in this type. Next to its large flowers delivers Chica earliness and superior uniformity under various conditions. Chica gives color all season long in home gardens and commercial landscapes.

- *Large flower size*
- *Full double crested flower*
- *Early to flower*
- *Superior uniformity*
- *Excellent garden performance*
- *Available both as de-tailed and coated seed*

Chica™ colors:

flame
gold
yellow
orange
full mixture

Life cycle	annual
Use	packs, pots, containers, beds, borders and landscape
Height in pot	15-20 cm (6-8 in.)
Garden height	25-30 cm (10-12 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	340-360 s/gram (9.640-10.200 s/oz.)
Seed form	de-tailed and coated seed
Germination rate	85%

flame

gold

orange

yellow

raspberry surprise | antique shades | beaconsfield | blue blotched

cherry rose | deep marina | deep orange blotched | lemon yellow | marina | neon purple

pink shades blotched | primrose | pure deep orange ***IMPROVED*** | primrose blotched ***IMPROVED*** | pure light blue | pure mid blue

pure white | pure yellow | red blotched | rose blotched | scarlet ***IMPROVED*** | violet face

white blotched | white rose wing | yellow blotched | yellow purple wing | yellow red wing

Cello™ PANSY

F1 Viola wittrockiana

The Cello™ series has a solid reputation in the market of large flowered pansies. Cello pansies have a non-stretching sturdy plant habit with is good basal branching and its flowers stand solidly upright on short, strong flower stems. Cellos are perfectly suited for autumn and spring production in pots, packs and perform excellent in beds, containers and the landscape.

- *Large flower size*
- *Non-stretching, well-branched plant habit*
- *Great uniformity between the color range*
- *Excellent for spring and autumn production*
- *Perfectly suitable for production in packs and pots*
- *Available both as raw and primed seed*

Life cycle	biennial
Use	packs, pots, containers, beds, borders and landscape
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Seed count	700-950 s/gram, (20,000-27,000 s/oz)
Seed form	normal and primed
Germination rate	85%

Cello™ colors:

pure deep orange ***improved***
primrose blotched ***improved***
scarlet ***improved***

antique shades
beaconsfield
blue blotched
cherry rose
deep marina
deep orange blotched
lemon yellow
marina
neon purple
pink shades blotched
primrose
pure light blue
pure mid blue
pure white
pure yellow
raspberry surprise
red blotched
rose blotched
violet face
white blotched
white rose wing
yellow purple wing
yellow blotched
yellow red wing
full mixture

mixture

Trumpet PANSY

S1 Viola wittrockiana

Trumpet is a perfect cross between a highly qualified Pansy F1 hybrid variety and the cost of a regular open pollinated variety. This S1 variety is more intended and very suited for mass market pansy production. Trumpet combines its compact plant habit with early blooming medium-large to large flowers.

- *Early flowering*
- *Compact plant habit*
- *Medium-large to large flowers*
- *Perfect for packs and pots*
- *Low energy crop*

Life cycle	biennial
Use	pack, pots, containers, beds, borders and landscape
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	700-950 s/gram, (20,000-27,000 s/oz)
Seed form	normal
Germination rate	85%

Trumpet colors:

blue blotched
light blue
mid blue
orange
orange blotched
pink blotched
pure white
pure yellow
red wing
red blotched
rose blotched
white blotched
yellow blotched
full mixture

full mixture

lemon shades

pink shades blotched

red blotched

rose shades blotched

pure white

white blotched

pure yellow

yellow blotched

Xtrada™ PANSY F1 XL-FLOWERED

F1 Viola wittrockiana

Xtrada™ combines its compactness, heat- and cold-tolerance with a huge flower size. Its strong stems hold flowers erect for superb presentation in the garden and on the retail shelf. Xtrada pansies are suited for spring and autumn sales and give an excellent garden presentation.

- *Early to flower*
- *XXL - flower size*
- *Compact and well-branched habit*
- *Easy filling and coverage of pots*
- *Heat and cold tolerant*
- *Suited for pots, gallons and borders*

Life cycle	biennial
Use	packs, pots, containers, beds and borders
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	700-950 s/gram, (20.000-27.000 s/oz)
Seed form	normal and primed
Germination rate	85%

Xtrada™ colors:

blue blotched
lemon shades
mid blue blotched
peach shades blotched
pink shades blotched
pure white
pure yellow
red blotched
rose shades blotched
violet face
white blotched
yellow blotched
full mixture

peach shades blotched

mid blue blotched

violet face

blue blotched

GP violet picotee

GP picotee mixture

GP blue picotee

GP burgundy picotee

GP red picotee

GP rose picotee

GP blue veined

GP orchid veined

GP red veined

GP rose veined

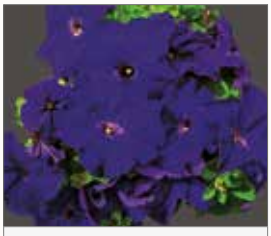
GP pink morn

Low Grow versus standard petunia

GP rose morn

GP salmon morn

GP peach (light salmon)



GP blue

GP burgundy

GP deep purple

GP mid blue

GP red

GP rose

GP salmon

GP sky blue

GP sweet pink

GP violet

GP white

GP full mixture

Limbo

Natural Dwarf Petunia

PETUNIA F1 GRANDIFLORA

LOW GROW ECO Friendly Production APPROVED

With the creation of the Limbo series of grandiflora Petunias, Hem Genetics changed the future of Petunia breeding forever. This series, developed by traditional flower breeding, incorporates a gene that imparts natural dwarfness to the varieties that minimizes or eliminates the need for the use of plant growth regulators (PGRs) for growers. This results in saving both material and labor costs, which then further results into a more compact and free flowering performance in the landscape with minimal maintenance compared to standard Petunias. As the anchor to our Low Grow line of PGR-free products, Hem Genetics continued to refine Limbo Petunias. As of 2017, the original genetics have all been replaced by the Limbo ***GP*** varieties, with the same non-stretching habit but even better Garden Performance and vigor in the landscape.
Another breeding breakthrough was achieved in 2017 with the release of three, red, rose and burgundy **Picotee** colors. Blue picotee will soon be added to the color rage.

Mixtures:
A growers mixture with major colors is composed which provides a more uniform plug tray performance and appearance. It's specifically intended for plug producers who strive for a better plug tray uniformity.
Our latest blending is called picotee mixture. In addition to the growers mixture, full mixture and the new picotee mixture, there is Heather's mix which has been created by and named as a tribute to Heather Will-Browne, the color-guru at Walt Disney World Horticulture, for use in their parks.

Limbo *GP* offers following great features:

- *Minimal to no use of growth regulators (PGRs)*
- *Naturally better branching with shorter internodes*
- *Non-stretching during production*
- *Non-stretching on retail benches, longer shelflife at retail*
- *Extra-large flower size*
- *Perfect performance in containers, borders and landscape*
- *Profuse quantities of flowers for garden color throughout the season*
- *Fast recovery from weather/rain damage*
- *Easy to grow with little maintenance*
- *Much less splitting/lodging in the landscape compared to non-genetic dwarf petunias*
- *No use of PGRs enables ECO friendly production*

Life cycle	annual
Use	packs, pots, containers, hanging baskets, beds and borders
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	8.000-11.000 s/gram (227.000-312.000 s/oz.)
Seed form	normal and pelleted
Germination rate	85%

Limbo *GP* colors:

NEW violet picotee
NEW picotee mixture
burgundy picotee
red picotee
rose picotee
blue picotee - **Intro 2020**

blue veined
orchid veined
red veined
rose veined

pink morn
rose morn
salmon morn

peach (light salmon) ***improved***
blue
burgundy
deep purple
mid blue
plum
red
rose
salmon
sky blue
sweet pink
violet AS
white

full mixture
growers mixture
Heather's mixture

Heather's mixture

GP blue veined

GP orchid veined

GP red veined

GP rose veined

GP pink morn

GP red morn

GP rose morn

GP blue

GP burgundy

GP mid blue

GP peach

GP pink

GP plum

GP purple

GP red

GP salmon

GP sky blue

GP sweet pink

GP violet

GP white

Mambo

Natural Dwarf Petunia

PETUNIA F1 MULTIFLORA

One of the first introductions in the Hem Genetics genetically dwarf Low Grow™ class of bedding plants, Mambo Petunias became the breeding standard for multiflora Petunias. With virtually no need for the use of PGRs in greenhouse production, Mambo offers savings in both materials and application labor, plus a more 'sustainable' production by the use of less chemicals. Hem Genetics continuously works to improve varieties to current industry needs, and as of 2017, the entire Mambo series has been replaced by improved Mambo ***GP*** varieties, which give the same greenhouse performance and compactness, but with an even better Garden Performance in the landscape, where they shine with high flower count, little to no maintenance and probably the best after-rain recovery of any Petunia.

Mixtures:
In addition to the full mixture, a growers mixture with major colors is composed which provides a more uniform plug tray performance and appearance. It's specifically intended for plug producers who strive for a better plug tray uniformity

Mambo *GP* offers following great features:

- *Minimal to no use of growth regulators (PGRs)*
- *Naturally better branching with shorter internodes*
- *Non-stretching during production*
- *Non-stretching on retail benches, longer shelf-life at retail*
- *Extra-large flower size*
- *Perfect performance in hanging baskets, borders and landscape*
- *Profuse quantities of flowers for garden color throughout the season*
- *Fast recovery from weather/rain damage*
- *Easy to grow with little maintenance*
- *Much less splitting/lodging in the landscape compared to non-genetic dwarf petunias*
- *No use of pgrs enables ECO friendly production*

Life cycle	annual
Use	packs, pots, containers, hanging baskets, beds and borders
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	8.000-11.000 s/gram (227.000-312.000 s/oz.)
Seed form	normal and pelleted
Germination rate	85%

Mambo *GP* colors:

blue veined
orchid veined
red veined
rose veined

pink morn
red morn
rose morn

blue
burgundy
deep purple
mid blue
peach
pink
plum
purple
red
rose
salmon
sky blue
sweet pink
violet
white
full mixture
growers mixture

blue | blue star | burgundy | burgundy star | pink

plum | red | red morn | red star | red veined

rose | rose morn | rose star | rose veined

salmon | salmon veined | violet | white

Tango PETUNIA

F1 Petunia grandiflora

Petunia Tango shows good timing and uniformity in flowering and plant habit and is therefore one of the best pack performers. The plants are well branched, free flowering in the garden and weather tolerant. Petunia Tango is large flowered and combines earliness and compactness with an excellent garden performance.

- *Early to flower*
- *Compact and well-branched plant habit*
- *Wide range of colors*
- *Large flower size*

Life cycle	annual
Use	packs, pots, containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	25-35 cm (10-14 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	8,000-11,000 S/gram, (227,000-312,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

Tango colors:

red veined
rose veined
salmon veined

red morn
rose morn

blue star
burgundy star
red star
rose star
all star mixture

blue
burgundy
pink
plum
red
rose
salmon
violet
white
full mixture

all star mixture

red veined

rose veined

rose morn

salmon morn

scarlet morn

rose star

red star

all star mixture

purple

Lambada™ PETUNIA

F1 Petunia multiflora

Multiflora Lambada™ flowers extremely early in packs, grow compact and are covered in an abundance of free blooming flowers, forming a floriferous carpet. The exceptional weather resistance of Lambada guarantees color all season long in home gardens and commercial landscapes.
Lambada is a superior garden performer.

- *Early flowering*
- *Compact and well-branched plant habit*
- *Wide range of colors*
- *Exceptional good weather resistance*
- *Excellent garden performance*

Life cycle	annual
Use	packs, pots, containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	25-30 cm (10-12 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	8,000-11,000 S/gram, (227,000-312,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

Lambada™ colors:

red veined
rose veined

rose morn
salmon morn
scarlet morn

blue star
red star
rose star
all star mixture

blue
burgundy
deep violet
pink
purple
red
rose
salmon
scarlet
white
full mixture

blue

burgundy

deep violet

pink

red

rose

salmon

scarlet

white

burgundy flame

red flame

rose flame

violet flame

appleblossom

blue

bronze

lemon

mid blue

orange

pink

purple

rose

scarlet

velvet red

violet (formerly carmine)

white

yellow with eye

full mixture

flame mixture

bicolor mixture

Pioneer PRIMULA

F1 Primula acaulis

Pioneer primulas have been developed for the early to mid-early flowering category. They have excellent uniformity within their color range. Primula Pioneer is a fast-cropping series that requires no low temperatures for flower initiation. Therefore, it will tolerate slightly warmer conditions and still produce good quality plants.

- *Suited for early to mid-early production*
- *Compact, round and firm plant habit*
- *Large flower size*
- *Suitable for 6-10 cm (3-4 in.) Pots and packs*
- *Very uniform in plant habit and flowering time*

Life cycle	biennial
Use	packs and pots
Height in pot	10-15 cm (4-6 in.)
Garden height	15-20 cm (6-8 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	900–1,050 S/gram, (25,500 – 29,800 S/oz)
Seed form	normal
Germination rate	80%

Pioneer colors:

burgundy flame
red flame
rose flame
violet flame *(formerly carmine flame)*
flame mixture;
mixture of flame colors and appleblossom

appleblossom
blue
bronze
lemon
mid blue
orange
pink
purple *(formerly violet)*
rose
scarlet
velvet red
violet *(formerly carmine)*
white
yellow with eye
bicolor mixture;
mixture of salmon and rose bicolor
full mixture;
mixture of separate colors

blue shades

lemon shades

light blue

orange

rose shades

scarlet shades

white

yellow with eye

Accord PRIMULA

S1 Primula acaulis

Accord is a perfect cross between a highly qualified Primula F1 hybrid variety and the cost of a regular open pollinated variety. This S1 variety is more intended and very suited for mass market primula production. Accord has been developed for the mid-early to mid-late flowering category and has a compact and firm plant habit with medium-large flowers on top of it.

- *Suited for mid-early to mid-late cropping time*
- *Compact and firm plant habit*
- *Well suited for mass market production*
- *Suitable for 6-10 cm (2-4 in.) Pots and packs*
- *Low energy crop*

Life cycle	biennial
Use	packs and pots
Height in pot	10-15 cm (4-6 in.)
Garden height	15-20 cm (6-8 in.)
Garden width	15-20 cm (6-8 in.)
Seed count	900–1,050 gram, (25,500 – 29,800 S/oz)
Seed form	normal
Germination rate	80%

Accord colors:

appleblossom
blue shades
bronze shades
carmine shades
cream shades
lemon shades
light blue
orange
pink shades
rose shades
scarlet shades
white
yellow with eye
full mixture

rhodos

Rhodos RHODOCHITON

Rhodochiton atrosanguineus

The exotic bell shaped flowers of Rhodos have a deep calyx with a maroon (purplish brown) tubular flower. Rhodos has smoothly textured evergreen foliage. This rapidly growing climber will flower abundantly throughout summer and can grow up to a height of 300-400 cm (10-13 ft.) and a width of 180 cm (6 ft.).

- *Excellent patio plant*
- *Attractive variety for trellis, wall and hanging baskets*
- *Attractive climber*
- *Graded seed with high and uniform germination*

Life cycle	annual
Use	pots, containers, hanging-baskets
Height in pot	50-60 cm (20-24 in.)
Garden height	300-400 cm (10-13 ft.)
Garden width	40-60 cm (16-24 in.)
Seed count	3,500 seeds/gram, (99,500 S/oz)
Seed form	profi seed
Germination rate	85%

plug performance

rose bicolor

lavender

plum

purple

rose

rose bicolor

salmon

Amore SALVIA

Salvia splendens

This series is compact in packs and pots and shows much growing power in the garden. Amore flowers early and uniform and its blooms densely cover the spikes, creating a very floriferous effect. The flowers of this day length neutral series are carried well above its green foliage. Because of its perfect garden performance was Amore the best Salvia series at the Dallas Arboretum trials.
Amore Scarlet is a Fleuroselect Approved Novelty.

- *Early flowering and uniform plant habit*
- *Compact and well branched*
- *Very uniform flowering within the series*
- *Great garden performance*
- *Suited for packs and pots*
- *Wide color range*

Amore colors:

lavender
plum
purple
rose
rose bicolor
salmon
scarlet APPROVED NOVELTY
scarlet bicolor
white
full mixture

Life cycle	annual
Use	packs, pots, containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	30-35 cm (12-14 in.)
Garden width	20-30 cm (8-12 in.)
Seed count	250-300 S/gram, (7,090-8,500 S/oz)
Seed form	normal
Germination rate	85%

scarlet

scarlet bicolor

white

Red alert SALVIA

Salvia splendens

The fiery scarlet Red Alert shows much growing power in the garden, which makes it an excellent variety for landscaping. The flowers of this day length neutral salvia are carried well above its dark green foliage. Red Alert performs well in full sun and partial shade. The flower color is more intense and leaves are a darker green than Amore scarlet.

- *Early flowering and uniform plant habit*
- *Compact and well branched*
- *Dark green foliage*
- *Suited for packs and pots*
- *Great variety for commercial landscaping*

Life cycle	annual
Use	packs, pots, containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	30-35 cm (12-14 in.)
Garden width	20-30 cm (8-12 in.)
Seed count	250-300 S/gram, (7,090-8,500 S/oz)
Seed form	normal
Germination rate	85%

LOW GROW
ECO Friendly Production
APPROVED

bright red

lavender

pink

purple

salmon

scarlet bicolour

white

white surprise

Nero mixture

full mixture

Reddy™ natural dwarf SALVIA

Salvia splendens

Just like Limbo and Mambo petunia, Salvia Reddy™ is the only genetic dwarf, non-stretching Salvia variety on the market. Salvia Reddy has proven to be of great value to growers, retailers and consumers. Plant growth regulators (PGRs) are not necessary. This made growers understand how, using Salvia Reddy would enable them to take a step forward in environmentally conscious growing. Because Reddy refuses to stretch, there is no need to use growth regulators. This makes Reddy the perfect Salvia for plug and pack production.
Another advantage is the much longer shelf life throughout the whole chain. Reddy produces a large number of densely placed bright colored flowers above dark green foliage. It is day length neutral and performs splendidly in the garden. Reddy white surprise is a Fleuroselect Approved Novelty.

- *No need for plant growth regulators (PGRs)*
- *Non-stretching plant habit*
- *Early flowering and uniform plant habit*
- *Dark green foliage*
- *Excellent seed quality*
- *No need of PGRs enables ECO friendly production*

Life cycle	annual
Use	packs, pots, containers, beds and borders
Height in pot	10-15 cm (4-6 in.)
Garden height	20-25 cm (8-10 in.)
Garden width	20-25 cm (8-10 in.)
Seed count	250-300 S/gram, (7,090-8,500 S/oz)
Seed form	normal
Germination rate	85%

Reddy™ colors:

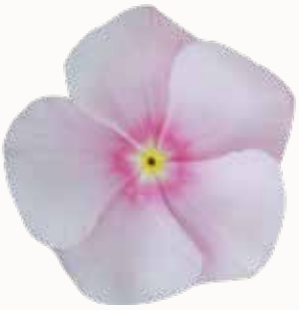
bright red
lavender
pink
purple
salmon
scarlet bicolor
white
white surprise
Cleopatra mixture;
mixture of white, salmon, bright red, scarlet bicolor and white surprise
full mixture;
mixture of all colors
Nero mixture;
mixture of white, lavender and purple

Cleopatra mixture

appleblossom

apricot

blueberry



blush pink

burgundy

fresh red

lilac

orange with eye

orchid with eye

pink

polka dot

raspberry with eye

red

white

Solar VINCA F1 HYBRID

F1 Catharanthus roseus

Because of its compact and strong basal branching plant habit, Solar offers genetic compactness and excellent performance in pots, containers and the landscape. Solar flowers up to two weeks faster than O.P. vincas and produces large flowers with overlapping petals. Its hybrid vigor makes Solar more resilient to stressful weather conditions. Solar also performs well under cooler conditions, making it ideal for early sowings, extending the traditional Vinca season.

- *Basal branching plant habit*
- *Non-stretching*
- *Flowers up to two weeks faster than O.P. vincas*
- *More resilient to stressful conditions*
- *Withstands cooler conditions*
- *Ideal for a wide range of containers and the landscape*

Life cycle	annual
Use	packs, pots, containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	25-30 cm (10-12 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	500-800 S/gram, (14,200-22,700 S/oz)
Seed form	normal
Germination rate	85%

Solar colors:

appleblossom
apricot
blueberry
blush pink
burgundy
fresh red
lilac
orange with eye
orchid with eye
pink
polka dot - (white with red eye)
raspberry with eye
red
white
full mixture

apricot

apricot

blue with eye

burgundy

cherry

deep rose

orchid

peach

peppermint

pink

raspberry

red

Santa Fe

white

full mixture

Heatwave™ VINCA

Catharanthus roseus

Heatwave™ Vincas have a dwarf plant habit and keep this even under intense heat. They have a large flower size and a controlled habit for a wonderful retail and garden presentation. Heatwave is bred to grow well in cool greenhouses and to present an outstanding performance under sunny, hot and dry conditions.

- *Compact and well branching*
- *Perform well under hot and dry conditions*
- *Perfect for packs and pots and flowerbeds*

Life cycle	annual
Use	packs, pots, containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	25-30 cm (10-12 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	500-800 S/gram, (14,200-22,700 S/oz)
Seed form	normal
Germination rate	85%

Heatwave™ colors:

apricot
blue with eye
burgundy
cherry
deep rose
orchid
peach
peppermint - white with red eye
pink
raspberry
red
Santa Fe
white
full mixture
midnight mix
southwest mix

apricot

Solar Avalanche TRAILING VINCA F1

F1 Catharanthus roseus

The compact and well branched habit and large flowers with wide, overlapping petals make Vinca F1 Solar Avalanche the perfect choice for production in packs and pots. Its trailing habit as it matures makes it ideal for use in hanging baskets and mixed containers as the trailing component, and for use in gardens as a ground cover including large commercial landscape beds. Unlike many other trailing types of Vinca, Solar Avalanche doesn't throw out occasional tall, stalky stems, but maintains a well-manicured, low appearance. And where other series may fail Solar Avalanche does very well in extremely hot and humid conditions. For the past three years, Solar Avalanche has earned praise as a Top Summer Survivor in the FNGLA trials in Florida.

- *Trailing, spreading plant habit for hanging baskets and landscape applications*
- *Ideal for production in packs, pots, hanging baskets and mixed containers*
- *More uniform habit than most other trailing vinca*
- *Showy flowers abundantly produced with large overlapping flower petals*

Solar Avalanche colors:

blueberry NEW
apricot
burgundy
pink
rose
red
violet
white
full mixture

Life cycle	annual
Use	pots, baskets, containers, borders
Height in pot	20-25 cm (8-10 in.)
Garden height	25-30 cm (10-12 in.)
Garden width	20-25 cm (8-10 in.)
Seed count	500-800 S/gram, (14.200-22.700 S/oz)
Seed form	normal
Germination rate	85%

blueberry

apricot

burgundy

pink

rose

red

violet

white

purple ice

violet flare

black eye

deep blue & white

deep blue with blotch

deep marina

full black

lilac purple wing

marina

mid-blue

primrose with blotch

purple yellow face

terracotta

twilight

violet

violet eye

white

white rose wing

white violet wing

yellow

yellow with blotch

yellow red wing

yellow purple wing

black and white mixture

Corina™ VIOLA

F1 Viola cornuta

Small-flowered Corina™ has a highly uniform and well-branched plant habit which ensures a good coverage of the pot. Corina is suited for production in spring and autumn and can be used for production in a wide range of pack and pot sizes. Corina exhibits a strong basal branching and mounded plant habit covered with profuse quantities of flowers which continue to produce blooms throughout the season.

- *Highly uniform in plant habit and earliness*
- *Non-stretching well-branched plant habit*
- *Excellent for spring and autumn production*
- *Perfectly suitable for production in packs and pots*
- *Profuse quantities of flowers colors all season long*
- *Available both as raw and primed seed*

Life cycle	biennial
Use	packs, pots, containers, beds and borders
Height in pot	10-15 cm (4-6 in.)
Garden height	15-20 cm (6-8 in.)
Garden width	25-30cm (10-12 in.)
Seed count	1,100-1,400 S/gram, (31,000-40,000 S/oz)
Seed form	normal and primed
Germination rate	85%

Corina™ colors:

NEW purple ice
violet flare ***improved***
black eye
deep blue & white
deep blue with blotch
deep marina
full black
lilac purple wing
marina
mid-blue
primrose with blotch
purple yellow face
terracotta
twilight
violet
violet eye
white
white rose wing
white violet wing
yellow
yellow with blotch
yellow red wing
yellow purple wing
full mixture
black and white mixture

purple ice

PERENNIALS

white

Elegance double flowered DIANTHUS

F1 Dianthus interspecific

Dianthus Elegance is a cross of a perennial species that imparts hardiness to this series. Its excellent response to growth regulators allows you to create any plant you wish. From extremely compact plants of 12 cm (5 in.) to medium tall flowering pot and/or bedding plants. Without application of PGRs, Dianthus Elegance reaches a height of approx. 45-60 cm (18-24 in.)
Dianthus Elegance features double, lacy flowers on a medium tall sturdy plant. It is well-branched and does not require stem support. It does well in the landscape as a feature plant or as a thriller component in mixed containers.

Elegance colors:

lavender
pink
red
white
full mixture

- *First year flowering perennial*
- *Winterhardy to USDA zone 5*
- *Semi-double to double flowers*
- *Medium tall sturdy plant habit*
- *Suited for landscaping and backyard cutting gardens*
- *Suited as a thriller component in mixed containers*
- *Heat tolerant and flowering all season long*
- *Excellent garden performance*

Life cycle	perennial
Use	pack, pots, outdoor containers, beds and borders
Height in pot	25-35 cm (10-14 in.)
Garden height	45-60 cm (18-24 in.)
Garden width	25-30 cm (10-12 in.)
Seed count	1,100-1,250 S/gram, (30,000-35,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

lavender

red

pink

purple

Supra™ DIANTHUS

F1 Dianthus interspecific

First year flowering perennial Supra™ is fast to flower and shows exceptionally good garden performance. This interspecific cross resulted in hybrid vigor for improved heat tolerance and prolific blooming with large uniquely lacy, serrated flowers of up to 4 cm (1.5 in.) across. Supra performed extremely well in trials across Europe and the USA. Testing in Florida shows this cross has excellent heat tolerance in very warm climates.

Supra purple and pink are both All America Selections winners.

- *First year flowering perennial*
- *Winter-hardy to USDA zone 5*
- *Suited for production in 10-12 cm (4-5 in.) and larger pots and mixed containers*
- *Best for ground beds if used as a perennial*
- *Heat, rain and frost resistant*

Life cycle	perennial
Use	pack, pots, outdoor containers, beds and borders
Height in pot	15-20 cm (6-8 in.)
Garden height	25-30 cm (10-12 in.)
Garden width	20-25 cm (8-10 in.)
Seed count	1,100-1,250 S/gram, (30,000-35,000 S/oz)
Seed form	normal and pelleted
Germination rate	85%

Supra™ colors:
scarlet NEW
pink
purple
salmon **improved**
crimson
white
full mixture

scarlet

pink

purple

salmon

crimson

white

NEW Dazzling Nights VERBENA

Verbena rigida

Verbena Dazzling Nights from Hem Genetics is a first-year flowering perennial hardy in USDA zones Zone 8-11. It grows 35-45cm/14-18 in. tall and bears round clusters of purple flowers at the tips of well-branched stems that are extremely attractive to butterflies and other pollinators, and flowers all season long, making it ideal for the home garden as well as professional landscape. These also make a perfect tall component to mixed containers for patio use, to attract butterflies.

- *Easy to grow first-year flowering perennial hardy from zone 8 to 11*
- *Beautiful purple flowers all summer long*
- *Good mid-level plant to bring height to the garden*
- *VERY attractive to pollinators, a must-have plant for butterfly gardens*
- *Excellent for large mixed patio containers*

Life cycle	perennial USDA Zones 8-11
Use	large outdoor containers, borders and landscape
Height in pot	20-30 cm/8-12 in.
Garden height	35-45 cm/14-18 in.
Garden spread	30-45 cm/12-18 in.
Seed count	1.400-1.520 S/gram (39,700-43,000 S/oz)
Seed form	profi seed
Germination rate	85%

NEW Purple Haze VERBENA

Verbena bonariensis

Verbena bonariensis Purple Haze is a first-year flowering perennial that is hardy in USDA zones 7-11. Verbena bonariensis is normally a very tall garden plant, 90-125cm/36-48in. tall, which can cause shipping issues for growers. Purple Haze from Hem Genetics was selected to be about 20% shorter than the older types, or 70-100cm/28-38 in. It produces globular clusters of lavender to light purple flowers on well-branched stems summer through fall. And it is extremely attractive to butterflies and other pollinators. Excellent background plant for the garden.

- *Easy to grow first-year flowering perennial hardy from zone 7 to 11*
- *Beautiful lavender/light purple flower clusters all season long*
- *Good tall plant to bring height to the flower garden*
- *VERY attractive to pollinators, a must-have plant for butterfly gardens*
- *Can be used for large patio containers to attract butterflies*

Life cycle	perennial USDA Zones 7-11
Use	large outdoor containers, borders and landscape
Height in pot	40-60 cm/16-23 in.
Garden height	70-100 cm/28-38 in.
Garden spread	30-40 cm/12-16 in.
Seed count	4.750 - 4.900 S/gram (134.500-139.000 S/oz)
Seed form	profi seed, pelleted
Germination rate	85%

NEW Promise LAVANDULA

Lavandula angustifolia hidcote

Promise is a new variety of one of the most-loved herbs in the perennial garden, English Lavender, with silver grey scented foliage and abundant violet blue very fragrant flowers on tall thin stems all summer long. Promise is a selection of the Hidcote-type, with uniform, compact plant habit and good seed quality with uniform germination. While flowering starts modestly in the first year, best finish quality and quantity of flowers is obtained by vernalizing plants.

- *Compact and branching plant habit*
- *Violet blue flowers on compact plants*
- *Very uniform in flowering and growth*
- *Flowering all through the season*
- *Uniform germination*

Life cycle	perennial USDA Zones 5-9
Use	pots, outdoor containers, beds and borders
Height in pot	20-25 cm/10-12 in.
Garden height	30-40 cm/12-18 in.
Garden width	25-30 cm/10-12 in.
Seed count	1.100 S/gram, (31.200 S/oz)
Seed form	profiseed
Germination rate	85%

NEW Orange Queen GEUM

Geum coccineum

Geum Orange Queen is a hardy perennial in USDA Zones 5-9, and produces pure orange 5-petaled flowers from May through July, bringing spots of bright colour to flower beds or the perennial garden. It has a compact plant habit growing to a height and spread of 20-30cm/10-12". The seeds are treated for faster and enhanced germination. Orange Queen will produce some flowers the first year from seed, but the plants will flower more uniformly and prolifically if vernalized.

- *Suited for production in pots and containers*
- *Compact and strongly branching plant habit*
- *Nice bright colour attractive to bees*
- *Excellent landscape and garden performer*

Life cycle	perennial USDA Zones 5-9
Use	pack, pots, outdoor containers, beds and borders
Height in pot	15-20 cm/6-8 in.)
Garden height	25-30 cm/10-12 in.
Garden spread	25-30 cm/10-12 in.
Seed count	700-800 S/gram, (19.850-22.700 S/oz)
Seed form	profiseed
Germination rate	70%

ORNAMENTAL EDIBLES & HERBS

NEW Plumbrella™ red

Plumbrella™ red

Plumbrella™ orange

Plumbrella™ creamy-yellow

Plumbrella™ rosy-pink

Plumbrella™ full mixture

Funnyplums™ red

Funnyplums™ orange

Funnyplums™ creamy-yellow

NEW Plumbrella™, Funnyplums™ PATIO TOMATO

Solanum - Lycopersicum esculentum

Plum-shaped Plumbrella and Funnyplums are brand new genetics in patio tomatoes. The plum-shaped fruits of this determinate patio tomato are developing above the leaves and spreads like a blanket over the foliage, giving a striking presentation at point of sale. The plant and leaves are very heat tolerant. The numerous plum-shaped fruits ripens early, are easy to pick ad are deliciously sweet in taste. Plant and fruiting habit make it the ideal variety to produce in pots and small containers or to use in combination pots as a spiller component.

Plumbrella™ has a dwarf and compact plant habit, is growing up to 35 cm/14 in. tall and is suited for growing in 12-16 cm/4-6 in. pots.
Available in four attractive colors: red, orange, creamy-yellow, rosy-pink and a mixture

Funnyplums™ has an even more compact plant habit, is growing up to 20 cm/8 in. tall and is suited for growing in 10-12 cm/4-6 in. pots.
Available in three attractive colors: red, orange, creamy-yellow and a mixture

- *Tasty and Unique plum-shaped fruits*
- *Dwarf and compact plant habit, heat tolerant*
- *Fruits developing above the leaves*
- *Fruits ripens early and are easy to pick*
- *Perfect for growing in small pots, containers and mixed containers*

Exclusive distribution in Europe by Graines Voltz - France
Re-imported resale in Europe is not permitted.

Plumbrella™ colors:
red
orange
creamy-yellow
rosy-pink
full mixture

Funnyplums™ colors:
red
orange
creamy-yellow
full mixture

Life cycle	annual
Use	pots, containers and mixed containers
Height in pot (Plumbrella)	up to 35 cm/14 in.
Height in pot (Funnyplums)	up to 20 cm/8 in.
Pot size (Plumbrella)	16 cm/6 in.
Pot size (Funnyplums)	12 cm/4 in.
Plants per pot	1 plant per small pot or 3 per large container
Garden position	sunny or very light shade
Water requirement	medium
Sow to finish	14-16 weeks
Min. growing temperature	night time 12° C/54° F, day time 20° C/68° F
Pinching	none
Growth regulators (PGR's)	none
Seed count	450-550 S/gram, (12.750-15.600 S/oz)
Seed form	profi seed
Germination rate	85%

Sweet Valentines PATIO TOMATO

Solanum - Lycopersicum esculentum

F1 Tomato Sweet Valentines is a well-branched determinate patio-type tomato with a very compact self-mounding or cascading plant habit. These unique plant characteristics makes it a perfect fit in the Hem Genetics Low Grow assortment. It's the first edible in the Low Grow assortment, stays compact 30-40 cm (12-16 in.) in height and produces tasty heart-shaped fruits borne in abundance. Plant and fruiting habit make it an ideal variety to produce in hanging baskets or to use in combination pots as the spiller component with herbs and flowers for patio use. Sweet Valentines is a Fleuroselect Approved Novelty.

- *First edible in the Low Grow assortment*
- *Non-stretching thus compact cascading plant habit*
- *Tasty heart-shaped fruits*
- *Perfect in pots, containers, hanging baskets and mixed containers*

Life cycle	annual
Use	pots, containers, hanging baskets
Height in pot	30-40 cm (12-16 in.)
Pot size	10-15 cm (4-6 in.)
Plants per pot	1 plant per small pot or 3 per large container
Garden position	sunny or very light shade
Water requirement	medium
Sow to finish	14-16 weeks
Min. growing temperature	night time 12° C/55° F, day time 18° C/60° F
Pinching:	none
Growth regulators (PGRs)	none
Seed count	500-600 S/gram, (14.150-17.000 S/oz)
Seed form	profi seed
Germination rate	85%

NEW Mandarina ORANGE BALM

Melissa officinalis

HERBS

Melissa officinalis, the traditional Lemon Balm, the foliage of which the strong true lemon scent is generally well known. But now we introduce a complete new variety called Mandarina with a pronounced orange scent. Mandarina is a hardy perennials to USDA zone 4, and have a trailing habit so can be utilized as a ground cover or as a "spiller" component in mixed containers. Flowers are produced in summer and are small and white. Leaves are used for herbal teas with a wide range of medicinal properties. Ideal for use in mixed containers for the patio with both herbs and flowers and our patio tomatoes.

Life cycle	perennial USDA Zones 4a to 9b
Use	pots, mixed containers and borders
Height in pot	15-20 cm / 6-8 in.
Garden height	30-35 cm / 12-14 in.
Garden width	35-45 cm / 20-24 in.
Seed count	1.400-1.500 S/gram, (39.600-42.500 S/oz)
Seed form	profi-seed
Germination rate	85%

- *Easy to grow perennial herb hardy from zone 4a to 9b*
- *Used for herbal teas to help sleep and also other various medical maladies*
- *Strong spreading plant with attractive foliage*
- *Can be used to cover slopes and difficult areas*
- *Excellent for large mixed patio containers*

NEW Dropshot TAGETES

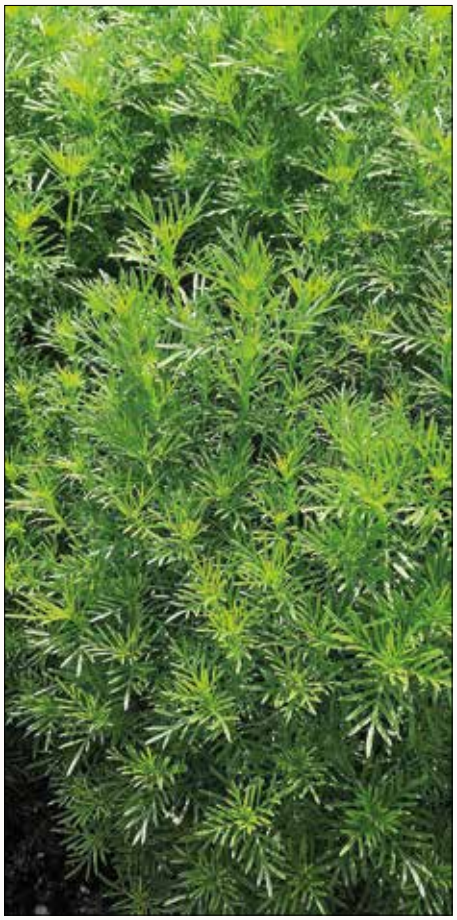
Tagetes filifolia

HERBS

Part of Hem Genetics Edible Ornamentals and Herbs line is our new Tagetes Dropshot. It's an annual herb, part of the marigold family, that has insignificant flowers. The foliage has a sweet taste but even more noticeable is the strong licorice or anise flavor. Being a more tropical species, native to Mexico, it can be utilized as a tarragon substitute for growing in warm climates. Dropshot grows to a height of about 25-30 cm/10-12 in. and is globular in shape. It branches freely and produces a dense plant of fine, thin tender leaves which can be used to flavor drinks, tea and food, also great just chewed on its own.
Best used from spring through autumn under long-day conditions. Short days trigger flower and seed production, after which the plant dies. Ideal for use in mixed containers for the patio with both herbs and flowers and our patio tomatoes.

Life cycle	annual
Use	pots, mixed containers, borders and micro greens
Height in pot	15-25 cm/6-10 in.
Garden height	30-35 cm/12-14 in.
Garden spread	30-35 cm/12-14 in.
Seed count	550-600 S/gram, (15.600-17.000 S/oz)
Seed form	normal, coated
Germination rate	85%

- *Easy to grow annual herb*
- *Strong licorice or anise flavor*
- *Excellent to flavor drinks, tea and food*
- *Good tarragon substitute*
- *Strong basal branching, attractive plant*
- *Produces from spring through fall, and attractive in the landscape*
- *Suited for micro-green production*



NEW Orangelo ORANGE THYME

Thymus fragrantissimus

HERBS

Also new in the edible Ornamentals and Herbs line is a French Thyme with traditional thyme scent but with overtones of a citrusy orange scent, called Orangelo. Very useful in the kitchen as a culinary herb, it is just as useful in the landscape as a fragrant ground cover, where it forms a low mat and spreads to cover the soil. During summer the plant covers itself with tiny blush white flowers. A hardy evergreen perennial, it survives to USDA zone 5. Can be utilized in packs and pots of all sizes, for herb programs, ground covers, perennials programs, and makes an excellent spiller component for mixed containers.

- *Easy to grow perennial herb hardy from USDA zone 5a to 9b*
- *Widely used culinary herb used to flavor food dishes.*
- *Tough low-growing plant makes an attractive ground cover that can withstand light traffic*
- *Can be used to cover slopes, sometimes used as a moss substitute between paving stones for walkways*
- *Excellent cascading edge plant for mixed patio containers or flowers and edibles*

Life cycle	perennial herb hardy to Zone 5a to 9b
Use	packs, pots, mixed containers and ground covers
Height in pot	15-20 cm/8-10 in.
Garden height	25-30 cm/12-14 in.
Garden spread	30-35 cm/14-16 in.
Seed count	5.550-6.000 S/gram, (157.300-170.000 S/oz)
Seed form	profi seed
Germination rate	85%

Drawn up by Hem Genetics BV at Hem on 1 November 2015 and based on the 2012 General sales and delivery terms of Plantum for ornamental and horticulture cultivation material and plants as well as horticulture materials. Filed at the Chamber of Commerce (COC) in Woerden, The Netherlands.

Article 1 Definitions
1. 'Seller' refers to: the natural or legal person engaged in delivering products as indicated in article 1 part 3 and in concluding transactions regarding such products, in the broadest sense, including the purchase and sale of products, the rental and/or sale of products he has cultivated himself and reproducing flowers or plants.
2. 'Buyer' refers to: the natural or legal person with whom the seller enters into any agreement regarding the products indicated in article 1 part 3.
3. 'Product' or 'products' refers/refer to: cultivation material and/or ornamental and horticultural plants as well as horticulture materials, such as fertilizers and crop protection products.

Article 2 Area of application
1. These General Terms apply to all offers, sales and deliveries made by the seller and agreements concluded by the seller regarding the products as described in article 1 part 3 of these General Terms.
2. Any terms of the buyer, of any type and by any name are not applicable, unless expressly agreed in writing.
3. Divergent provisions must be agreed expressly and in writing. In as much as these provisions do not replace the provisions of these General Terms, these provisions shall be deemed to supplement these terms.
4. A copy of these General Terms will be provided to the buyer by the seller.

Article 3 Offers and prices
1. All offers are non-binding unless otherwise agreed in writing. An offer will remain valid for a maximum of 30 days.
2. The agreement is deemed to have been concluded by written confirmation of the offer by the buyer, unless the seller objects in writing within five days after the buyer has sent confirmation.
3. If an agreement is concluded by the intervention of agents, travelling sales representatives and/or other intermediaries and/or retailers, this will only bind the seller once this has been accepted by the seller in writing.
4. Prices are exclusive of VAT and additional expenses, including: transport charges, packaging costs, cost of quality control and/or phytosanitary inspection, import duties, government and other official levies, as well as fees under breeders' rights and any other fees, unless otherwise agreed in writing. If no price is agreed on, the seller's price in effect at the time of delivery will apply.
5. The seller is entitled to adjust the price, in accordance with the requirements of reasonableness and fairness, to a level to be determined by the seller, if his expenses have increased significantly since the price was set.
6. Unless otherwise indicated, prices are in euros (€).
7. If the buyer cancels the agreement, he will immediately owe 25% of the gross sale value of the to be delivered products as a cancellation charge.
8. In the event that the products in question prove to be unsaleable or saleable only at a lower price as a result of said cancellation, the buyer will be liable for any price differences and other damages incurred by the seller.
9. Both parties are obliged to limit the possible damage due to the cancellation as much as possible.

Article 4 Conditions of sale
1. Orders for products for which materials have to be purchased from the buyer that is not yet fully grown at the time of purchase will be accepted by the seller subject to the normal cultivation average of good plant material with a good appearance.
2. Complete or partial failure of the cultivation or harvest of products or partial spoilage during storage for any reason will release the seller from the obligation to deliver and his other obligations, unless attributable to an intentional act or gross negligence on the part of the seller.
3. If the delivery of a variety that has been ordered is not possible for any reason, the seller is entitled to deliver another variety, or to cancel the order. The seller shall , in consultation with the buyer, make an effort to deliver a variety that is equivalent as much as possible. This replacement delivery shall take place under the same conditions as originally agreed. If the buyer does not accept another variety, the buyer has the right to cancel the order of this variety. If the order of the undeliverable variety is part of a larger agreement, then the cancellation referred to above only pertains to the undeliverable variety and the other parts of the agreement remain in effect. If delivery of another variety has been agreed, the buyer does not have the right to receive compensation for damages or to terminate the agreement.

Article 5 Delivery and transport
1. Delivery is EXW (ex works), in accordance with the Incoterms 2010, unless otherwise agreed. On delivery, the risk connected to the products in question, with all that is connected there to, is transferred to the buyer.
2. After consultation with the buyer, the seller will determine the delivery date. Delivery dates indicated are not considered deadlines. If a delivery date is agreed on, the seller will endeavor to maintain that date for delivery in as far as possible. If the seller cannot deliver on the agreed date or within the agreed period, the seller will inform the buyer about this in the timeliest manner possible. Parties will determine a new delivery date in consultation. This new delivery date will then immediately constitute the agreed delivery date.
3. If the buyer receives the ordered products before the agreed delivery date or period as indicated in part 2, the resulting risk is entirely for the buyer.
4. If the buyer receives or wishes to receive the ordered products after the agreed delivery date, the risk of any loss of quality resulting from longer storage will be entirely for the buyer.
5. Any extra costs due to taking earlier or later delivery of the products as referred to in part 3 or 4 of this article will be charged to the buyer.
6. If after a certain storage period that may be considered reasonable in view of the type of product, the buyer has not received the product and the risk of loss of quality and/or spoilage of the products leaves no other option, the order will be deemed to have been cancelled by the buyer. In that case, the buyer is obliged to pay the damage incurred by the seller as a result.

Article 6 Packaging/carts/pallets
1. All products are packaged in the original packaging of the seller. Single-use packaging can be charged and will not be taken back.
2. All packaging, except single-use packaging, remains the property of the seller.
3. The seller is entitled to charge the buyer an agreed user fee for reusable packaging and other durable material, which fee shall be specified separately on the invoice.
4. Within 30 days after delivery or immediately after planting, the buyer is obliged to return the packaging to the seller at his own expense and in good condition and under the proper hygienic conditions. If it has been agreed that the seller will collect the packaging himself, the buyer must see to it that the packaging remains in good state and under the proper hygienic conditions and store it so that the seller can collect it in a normal manner.
5. The buyer may not continue to use or allow third parties to use the packaging.
6. If carts, rolling containers or reusable pallets have been delivered with the products, then the buyer must return identical carts, rolling containers or reusable pallets with the same manner of registration (such as chip or label) within one week, unless agreed otherwise. The buyer may not keep these for his own use or allow third parties to make use of them.
7. In the event of damage or loss of reusable packaging, carts, rolling containers, pallets, etc., the buyer is obliged to repay the repair or replacement costs to the seller and also repay any extra rent as a result of late return.

Article 7 Payment
1. The seller is entitled to request an advance of 50% on the invoice amount from the buyer.
2. Payment must occur within thirty days after the invoice date, unless otherwise agreed.
3. The buyer is not entitled to reduce the purchase price by any counter-claim he may make.
4. The buyer is not entitled to suspend the fulfilment of his payment obligation in the event of a complaint submitted by him to the seller regarding the products delivered, unless the seller expressly agrees with the suspension in exchange for a guarantee.
5. All payments will be made at the offices of the seller or by deposit or transfer into a bank account to be indicated by the seller.
6. Payment must be made in euros (€) unless otherwise indicated on the invoice. In the last-mentioned case, the seller is entitled to charge exchange rate differences to the buyer.
7. If the buyer does not fulfil his payment obligation, mentioned in part 2 of this article, in time, he will be deemed to be in default by operation of law. The seller will then be entitled to charge interest at 1% monthly as from the date that the buyer is in default of fulfilling the payment obligation indicated in part 2, with a partial month being counted as a whole month. In the event of the buyer's default, the seller shall also be entitled to charge the exchange rate loss suffered as a result of that.
8. If the buyer is in default or otherwise falls short in fulfilling any of his obligations, all reasonable costs to obtain satisfaction, both legal and extra-legal, will be at his expense.
9. The seller reserves the right to not carry out, or no longer carry out, orders or agreements if previous deliveries have not been paid for by the buyer or the buyer has not fulfilled or is at risk of not fulfilling his obligations to the seller. The buyer is required to pay the damage suffered by the seller due to this. The seller is not responsible for any damage to the buyer as a result of not carrying out orders.
10. The buyer located in a different EU Member State than the Netherlands will inform the seller in writing of his correct VAT identification number. Furthermore, the buyer shall provide all necessary information and documents that the seller requires as proof that he products have been delivered in a different EU Member State than the Netherlands. The buyer will indemnify the seller for all claims resulting from and all negative conse-quences of the buyer not or not entirely complying with the provisions in this article. The seller reserves the right to increase the price payable by the buyer with the VAT rate that would apply to the delivery in question in the event of delivery within the Netherlands.

Article 8 Force majeure
1. Force majeure refers to any circumstance outside the direct sphere of influence of the seller, as a result of which fulfilment of the agreement can no longer reasonably be expected. This may include strikes, fire, extreme weather conditions or government measures and diseases and plagues on the one hand or faults in the materials supplied to the seller on the other hand.
2. If the seller cannot fulfil its obligations because of force majeure, the seller must inform the buyer of the circumstances in writing as soon as possible.
3. In the event of force majeure, the parties will agree a change to the agreement or complete or partial dissolution of the agreement.
4. If the parties cannot agree on a change or dissolution within 10 days after the written notice of the circumstances in question, either of the parties may then apply to the court which is deemed competent by virtue of article

Article 9 Unforeseen circumstances
1. In the event of unforeseen circumstances on the part of one of the parties that are so serious that, in view of the requirements of reasonableness and fairness, the other party may not expect that the concluded agreement will remain in effect unchanged, the one party will inform the other

party about the unforeseen circumstances in writing and the parties will consult about a change of the agreement or about the complete or partial dissolution of the agreement.
2. If the parties cannot agree on a change or dissolution within 10 days after the written notice of the circumstances in question, either of the parties may apply to the court deemed competent by virtue of article 14.

Article 10 Guarantees and complaints
1. The seller guarantees that the products that are to be delivered on the basis of the order will comply with the requirements set out in the applicable regulations of Dutch testing authorities in effect at the time of concluding the agreement.
2. The seller does not guarantee the trueness to variety of the products that are generally known to branch back.
3. The seller does not guarantee the growth and blossoming of the products delivered.
4. The buyer will at all times be provided with all requested cultivation information to the best of the seller's knowledge and abilities, by or on behalf of the seller, but without any liability on behalf of the seller.
5. The seller registers the crop protection products that he uses in his own records. Copies of this registration will be made available to the buyer upon request.
6. Complaints regarding visible defects, including those regarding the quantity, size or weight of the products delivered, must be indicated to the seller within two days after delivery and the seller must be informed in writing within eight days.
7. Complaints regarding non-visible defects must be indicated to the seller immediately after detection (within two days at the latest) and the seller must be informed in writing within eight days.
8. Complaints must also be indicated to the seller at such a time that the seller can check the product.
9. A complaint must at least include:
a. A detailed and accurate description of the defect;
b. The storage location of the product to which the complaint refers;
c. A specification of facts on the basis of which it can be determined that the products delivered by the seller and those rejected by the buyer are the same.
10. When the products delivered are rejected by the buyer under the terms of this article and the buyer and the seller do not immediately agree on an amicable settlement, the buyer must then appeal to an independent, officially accredited expert who will compile an expertise report. The costs of the expertise report will be for the seller if the rejection is justified and for the buyer if it is not justified. In any case, the buyer shall advance the costs in question.
11. Complaints regarding a portion of the products delivered cannot give rise to rejection by the buyer of the entire delivery.
12. The buyer is obliged to check the delivered quantity of the shipment delivered, or have this checked, on receipt and to report a deviation of the quantity to the seller in accordance with part 6 of this article.
13. Expressing a complaint does not suspend the buyer's obligation to pay, regardless of any justification of a complaint.

Article 11 Liability
1. The seller accepts no liability whatsoever, unless in one of the cases specified in this article. In such a case, the liability of the seller will be limited to no more than the amount of the invoice. In no event whatsoever, shall the seller be liable for any form of consequential damage, loss of turnover or loss of profit.
2. The seller is not liable for damages due to force majeure as indicated in article 8 part 1.
3. All liability regarding non-timely delivery by the seller is hereby excluded, unless the agreed delivery date referred to in article 5 part 2 is exceeded by more than seven days. If the delivery date is exceeded by more than seven days, the seller must be given written notice of default, whereby the buyer must set a reasonable period for the seller to fulfil his obligations as yet.
4. Compensation in the event of a complaint can only take place if the complaint, submitted in accordance with article 10, proves to be justified and provided that there is culpability or conscious negligence on the part of the seller. Moreover, the compensation shall be limited to the part of the delivered goods to which the complaint pertains.
5. In the event of a partial failure of the cultivation at the buyer as a result of the delivered products, then, if the seller is required to pay compensation for damages by virtue of part 4 of this article, the compensation of damages payable by the seller shall not exceed the percentage of the invoice value that equals the portion of the cultivation that failed at the buyer. If, when the damage is reported, the seller and the buyer jointly determine or a third party determines the percentage of deviating, diseased or weak plants, this percentage will determine the seller's maximum liability.
6. The buyer may not deduct damage compensation from any outstanding amounts payable to the seller and damage compensation does not entitle the buyer not to pay the invoice amount or not to pay this timely.
7. Both parties are obliged to ensure that any damage is limited as much as possible.
8. Each possible claim regarding compensation for damages pursuant to these General Terms expires, if and as soon as one year has passed since the delivery of the products in question when the claim has not been submitted to the seller in writing.
9. Any possible guarantees/warranties on the part of the seller expires if the buyer of the products processed or has them processed, repackages or has them repackaged or has used the products incorrectly.
10. Product photos in the catalog and on the Hem Genetics website are provided for illustrative purposes only. No rights can be derived from the use of these photos.

Article 12 Transfer of ownership, retention of ownership and surety
1. Except for the terms of part 2 of this article, ownership of the products is transferred to the buyer at the time of delivery under article 5 of these General Terms.
2. All delivered and to be delivered products, and the products arising therefrom, irrespective in which stage of the cultivation process, remain the sole property of the seller, until all claims that the seller has or acquires vis-à-vis the buyer, including in any case the claims
specified in Book 3, Section 92, Subsect. 2 of the Dutch Civil Code have been paid in full.
3. As long as the ownership of the products has not been transferred to the buyer, the buyer may not pledge the products or grant any other right to these products to third parties, except within the context of his normal business operations. The buyer undertakes upon the seller's first request to cooperate in establishing a pledge right on the receivables that the buyer acquires or shall acquire following the delivery of the products to his customers.
4. The buyer is obliged to store the products that have been delivered subject to retention of title with the necessary care and in such a manner that the products can be identified by the seller.
5. The seller is entitled to repossess the products delivered subject to retention of title and that are still located at the buyer if the buyer is in default with regard to the fulfilment of his payment obligations or is experiencing payment difficulties or threatens to experience payment difficulties. The buyer shall grant the seller free access to his premises and/or buildings for the inspection of the products and/or in order to exercise the seller's rights.
6. If there is any doubt in the mind of the seller regarding the ability of the buyer to pay, the seller will be entitled to defer performances until the buyer has provided surety for the payment. If the buyer has not provided surety for the payment within fourteen days after being ordered to do so, the seller is entitled to terminate the agreement by cancellation. In this case, the buyer will be liable for the expenses incurred by the seller.

Article 13 Protection under breeders' rights or contractual protection of varieties
1. The delivered products may only be used by the buyer to cultivate end products at the buyer's business premises. The end product may only be sold by the buyer under the relevant variety name and trademark if applicable.
2. Starting material and plant material of species protected by a breeders' right applied for or granted in the Netherlands or any other country or by a contractual transfer provision may not be used to further reproduce the variety. Furthermore, illegally reproduced starting material and plant material may not be:
a. treated for the purpose of reproduction
b. brought into the realm of commerce,
c. traded further
d. exported
e. imported or kept in stock for one of these purposes.
3. The seller is entitled to access to the business premises of the buyer or lots under the buyer's control where the starting or plant material delivered by the seller is located to view and/or assess said material. The seller will inform the buyer of his arrival in a timely manner.
4. The buyer is obliged to provide immediate access to his business and the crops to inspection authorities carrying out inspections on behalf of the owner of a variety delivered to him. Upon request, the buyer must also provide immediate access to his records, such as invoices, that are relevant to this inspection.
5. If the buyer finds a mutant in the protected variety, he must immediately inform the holder of the breeders' right and/or his representative by registered letter.
6. At the written request of the holder of the breeders' right and/or his representative, the buyer will provide the holder of the breeders' right and/ or his representative, within two months of receiving the request, with test material of the mutant, free of charge.
7. The buyer is aware that the finder of a mutant, being an essentially derived variety, in the protected variety requires the permission of the holder(s) of the breeders' right regarding the 'parent variety' to exploit the mutant.
8. In particular, the buyer is aware that the finder of a mutant requires the permission of the holder of the breeders' right regarding the 'parent variety' to carry out the actions indicated in part 2 regarding all material of the mutant, including harvested material (therefore also flowers, plants and/or plant parts).
9. The buyer is obliged to provide all cooperation desired by the seller, including cooperating in collecting evidence, in the event that the seller becomes involved in proceedings regarding breeders' rights or other intellectual property rights.
10. The buyer grants permission to wholesalers, auctions, importers and/or exporters to provide information to the holder of the breeders' rights and/or his representative regarding the quantity of harvested product that the buyer trades of the variety of the holder of breeders' rights. In addition, the buyer grants specific permission to the auctions to provide information to the holder of the breeders' rights and/or his representative regarding the quantity of his product that is traded at the auction under the code 'other'.

Article 14 Dispute settlement
1. Dutch law applies to all agreements to which these General Terms apply in whole or in part.
2. All disputes (even those deemed as such by only one party) regarding or arising from the agreements concluded between the seller and the buyer, to which these General Terms apply, can be settled by the Dutch court that is competent in the area in which the seller is established. In addition, the seller is entitled at all times to summon the buyer to appear before the court which is competent by law or by virtue of the applicable international convention.

Article 15 Final clause
If and insomuch as any part or provision of these General Terms proves to be contrary to any compulsory provision of national or international law, it will be deemed not agreed on and these General Terms will otherwise bind the parties. The parties will then confer to arrive at a new provision corresponding as much as possible to what the parties intended.

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