

# Harvest our experience

Salad catalogue 2011



syngenta®







## Growing together

Cultivating your business in today's competitive salads industry is tough. S&G, Syngenta's horticultural seed brand for Europe, the Middle East and Africa, gives you a competitive edge.

Backed by Syngenta's world leadership and over 150 years of experience, we know a thing or two about adding value to customers' businesses.

'Harvesting our experience' comes down to three crucial elements. Firstly, we know seeds and everything that goes into high-yielding, reliable varieties. Secondly, we are constantly innovating based on market trends, climatic conditions and consumer preferences. Thirdly, we understand you – your needs, concerns and challenges. Our constant innovation delivers crops which appeal to the entire value chain: growers, integrated producers, traders, fresh cutters, retailers and consumers.

Your lettuces will meet the highest requirements of nutrition, taste, freshness, visual appeal, convenience and packaging.



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# Outdoor Lettuce



# Oakleaf

## Sansula



### Key benefits

- Dark green Oakleaf
- Developed specifically as a dual purpose variety (processing and fresh cut)
- Can be cut in one action due to its open head
- Large number of single leaves with a small cut surface
- Cuts and processes better than conventional oakleaf types due to the size and robustness of the leaves
- Reduces wastage and improves quality in the bag

## LS7994\*



### Key benefits

- Triple red Oakleaf
- Complete resistance to Bl: 1-27(HR), Nr: 0 (HR)
- Compact volume and weight
- Cuts and processes better than conventional Oakleaf types due to the size and robustness of the leaves
- Easy to wash

### Assortment table Oakleaf varieties

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>Sansula</b>	Green	Bl: 1-16, 18-24, 27	Nr: 0	***	Spring to autumn	Fresh market and processing	Compact variety with good filling and leaf shape. Ideal for the processing industry.
<b>LS7994*</b>	Red	Bl: 1-27	Nr: 0	*	Spring to autumn	Fresh market and processing	Compact triple red Oakleaf with contrasting lime green on lower half of leaf. Strong leaves with pleasant taste. An attractive partner to LS7993.
<b>LS7993*</b>	Green	Bl: 1-27	Nr: 0	**	Spring to autumn	Fresh market and processing	Compact brilliant green Oakleaf variety suitable for the whole season. Sweet and crunchy.
<b>LS9971*</b>	Green	Bl: 1-27	Nr: 0	****	Spring and autumn	Fresh market	Large Oakleaf variety with high yield. Good filling and downside.
<b>LS9978*</b>	Red	Bl: 1-27	Nr: 0	**	Spring to autumn	Fresh market	Red Oakleaf variety with compact volume and good bolting tolerance.

\* Variety for trials only

# Open Batavia

## Funfix (LS8739)



### Key benefits

- Open Batavia variety
- Product suitable for the fresh market and the processing industry
- Bremia resistances BI: 1-27 (HR)
- Aphid resistance Nr: 0 (HR)
- A vigorous plant suited to spring and autumn productions
- Uniform product with excellent volume
- Semi-erect variety with good downside and easy to cut

## Funtasia (LS8738)



### Key benefits

- Open Batavia with good heart filling
- Product suitable for the fresh market and the processing industry
- Bremia resistances BI: 1-27 (HR)
- Aphid resistance Nr: 0 (HR).
- Suitable for full season production
- Well proportioned and uniform head size
- Semi-erect variety with good downside and easy to cut

### Assortment table Open Batavia

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>Funtasia (LS8738)</b>	Green	BI: 1-27	Nr: 0	****	Spring, and early autumn	Fresh market and processing	Attractive variety and healthy characteristics.
<b>Funfix (LS8739)</b>	Green	BI: 1-27	Nr: 0	****	Spring and autumn	Fresh market and processing	Vigorous variety with very uniform heads.
<b>Funride (LS7775)</b>	Green	BI: 1-27	–	***	Spring to autumn	Fresh market	A bolting tolerant and very uniform variety with a very attractive shape.
<b>Cetero (LS8474)</b>	Green	BI: 1-26	Nr: 0	***	Spring, summer and autumn	Fresh market and processing	New Batavia type with a brilliant green colour. Long shelf life, very sweet taste and crunchy leaves.

# Classic Batavia

## Malaga (LS9372)\*



### Key benefits

- New classic Batavia type
- Full Bremia BI 1-27 (HR) and Nasonovia Nr: 0 (HR) resistance
- Healthy downside
- Good weight
- Very uniform in the field
- For spring, summer and autumn plantings

### Assortment table Classic Batavia

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>Malaga (LS9372)*</b>	Green	Bl:1-27	Nr: 0	***	Spring to summer	Fresh market	New Batavia with high yield and improved performance compared to Edurne.
<b>Malabo (LS7366)</b>	Green	Bl:1-24, 27	Nr: 0	***	Spring to summer	Fresh market	Batavia with good heading. Improved resistances compared to Masaida.
<b>Masaida</b>	Green	–	–	***	Spring to summer	Fresh market	The original 'Masaida' - thin leaves and a good taste.
<b>Edurne</b>	Green	Bl: 1-5, 7-10, 17	–	***	Spring to autumn	Fresh Market	Brilliant shiny green Batavia with guaranteed heading.
<b>Steirer Krauthauptel (LS7364)</b>	Green/Red	Bl: 1-24, 27	–	***	Summer	Fresh market	Summer variety which is strong against tipburn. With typical red edge.
<b>Grazer Krauthauptel</b>	Green/Red	–	–	***	Spring and autumn	Fresh market	The 'Grazer'. Attractive extended red edge.

Varieties grown predominantly in the German region.  
Please contact your Crop Specialist if of interest for the UK market.

\* Variety for trials only

# Midi Romaine

## Musena



### Key benefits

- Reliable medium-framed variety
- Upright and well-filled heart with good bolting and tipburn tolerance
- Consistent - giving security during demanding conditions, especially in the summer
- Very high quality heart, offering excellent presentation on the supermarket shelf

### Assortment table Midi Romaine

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>Musena</b>	Green	Bl: 1-18, 20-24, 27	–	***	Spring to autumn	Fresh market and processing	Established Romaine. Strong against twisting. Long harvest window.
<b>LS9858*</b>	Green	Bl: 1-27	Nr: 0	***	Spring to autumn	Fresh market and processing	New Midi Romaine with actual full resistances. Strong against tipburn and no twisting.
<b>LS9854*</b>	Green	Bl: 1-27	Nr: 0	***	Spring to autumn	Fresh market and processing	New Romaine for the whole season.
<b>Chatina (LS7863)*</b>	Green	Bl: 1-27	Nr: 0	***	Spring to autumn	Processing	Larger framed Midi Romaine with attractive internal blanch and good flavour.

\* Variety for trials only



# Mini Romaine / Little Gem

## LS8801\*



Illustration picture

### Key benefits

- Compact Little Gem
- Bl: 1-26
- Savoyed leaf
- Good bolting tolerance
- Mid-green colour
- Spring and autumn production

### Assortment table Mini Romaine / Little Gem

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
LS8801*	Green	Bl: 1-26	–	**	Spring and autumn	Fresh market and processing	Compact Little Gem with savoyed leaf.
Mordore (LS8876)	Red	Bl: 1-27	–	**	Spring to autumn	Fresh market	Cherry red Mini Romaine with green base. Ideal for duo packs.

\* Variety for trials only

# Butterhead

## Beltran (LS8693)



### Key benefits

- Bl: 1-26 and Nr: 0
- Compact volume with good weight
- Planting recommended from spring to autumn
- Strong against tipburn
- Good bolting tolerance

### Assortment table Butterhead

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>Beltran (LS8693)</b>	Green	Bl: 1-26	Nr: 0	***	Spring to autumn	Fresh market	Attractively shaped Butterhead with very good performance. Strong against tipburn.
<b>Tizian</b>	Green	Bl: 1-24, 27	Nr: 0	****	Summer	Fresh market	Summer variety with good bolting tolerance.
<b>Lucan</b>	Green	Bl: 1-25, 27	Nr: 0	****	Spring and autumn	Fresh market	High volume green variety with good yield.
<b>Daguan</b>	Green	Bl: 1-20, 22-24, 27	–	***	Spring to autumn	Processing	Ideal variety for the processing industry.

# BellaGio®



## Always going further

Working together breeds success – like the BellaGio®. We consulted fresh cut partners in early development to combine consumer appeal with industry-friendly traits. The result: colour, shape, taste and freshness to delight consumers in the first 'concept' lettuce suitable for mechanical harvesting.



# BellaGio®

## Rodagio (LS9429)










### Key benefits

- New red BellaGio®
- Bremia BI: 1-27 (HR) and Nasonovia Nr: 0 (HR) resistances
- High yielding red variety
- Excellent 3D leaf structure and leaf volume
- 'One Cut Ready' salad for the processing industry and fresh market
- Strong leaf, small cut surface and sweet flavour
- High number of small even-sized leaves with small cut surface reducing the risk of browning in the bag
- Low waste
- Good field holding



## Assortment table BellaGio®

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description	Leaf picture
<b>Rodagio (LS9429)</b>	Red	Bl: 1-27	Nr: 0	**	Spring to autumn	Fresh market and processing	Attractive red BellaGio® with excellent 3D leaf shape and good weight. Good shelf life in our tests with the processing industry.	
<b>LS9425*</b>	Green	Bl: 1-26	Nr: 0	***	Spring to autumn	Fresh market and processing	High-yielding blond BellaGio® with erect profile. Attractive 3D and incised leaf shape. Small cutting point. Excellent field standing ability.	
<b>LS9424*</b>	Green	Bl: 1-26	Nr: 0	**	Spring to autumn	Fresh market and processing	Compact blond BellaGio® with 3D and leaf shape. Small cutting point. Crunchy with a sweet flavour.	
<b>Robinio (LS5440)</b>	Red	Bl: 1-16, 18-24, 27	–	**	Spring to autumn	Fresh market and processing	Intense cherry red colour which makes it attractive, both as a whole head lettuce and as a processed leaf. The single leaves are uniform in size and therefore require no further cutting. This variety can be mechanically harvested.	
<b>Curletta (LS5435)</b>	Blond/green	Bl: 1-24, 27	Nr: 0	****	Spring to autumn	Fresh market and processing	Variety with uniform leaf size, therefore increasing the percentage of saleable leaves. Taste is sweet and crunchy. Blond/green in colour with a 3D leaf shape, it offers a fantastic, high quality baby leaf alternative in the bag.	
<b>Glasshouse BellaGio®</b>								
<b>LS9401*</b>	Blond/green	Bl: 1-27	–	***	Autumn to spring	Fresh market and processing	Indoor variety with a shape similar to Curletta. Sweet and crunchy taste.	
<b>One Cut Endives</b>								
<b>Friscaro (EF7405)*</b>	Green	–	–	****	Spring to autumn	Fresh market and processing	Exceptional one cut Endive variety. Brilliant green leaf colour with spikey serrated leaf tips. Robust leaf structure.	

\* Variety for trials only

# Iceberg

## Challenge



### Key benefits

- One of the benchmark varieties in the industry
- Suitable for all season production
- Flexibility around the time of harvest due to its excellent field standing ability
- Suitable for dual purpose use - whole head or processing
- Very strong against internal tipburn

### Assortment table Iceberg













Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>Challenge</b>	Green	Bl: 1-7, 10, 13-15, 17, 21, 27	–	****	Late spring and summer	Fresh market and processing	The benchmark Iceberg variety for summer production. Long harvest window.
<b>Iceking</b>	Green	Bl: 1-16, 18-24, 27	Nr: 0	****	Spring	Fresh market	Fast Iceberg variety especially from early plantings. Good head filling.



# Baby leaf



Assortment table Baby leaf

Variety	Colour	Segment	Bremia (HR)	Nasonovia (HR)	Short description	Leaf picture
<b>Roblita</b>	Red	Lollo	Bl: 1-26	–	A dark triple red lollo with an attractive leaf frill and a good leaf volume.	
<b>Parnita</b>	Green	Batavia	Bl: 1-25, 27	–	Glossy green colour with a attractive curled leaf. The leaf shape allows easier machine cutting while maximising yield.	
<b>Morgita</b>	Green	Cos	Bl: 1-27	–	A green Cos leaf with a unique leaf shape and beneficial 3D structure.	
<b>Alvita</b>	Red	Cos	Bl: 1, 3-13, 15-26	–	A robust dark red Cos leaf which is quick growing and offers a very good yield.	
<b>Belavita</b>	Red	Oak leaves	Bl: 1-26	–	True Oakleaf shape with a nice red colour. The growing speed allows it to be harvested at the same time, when sown in combination with the green types.	
<b>LS9498*</b>	Green	Oak leaves	Bl: 1, 3-26	Nr: 0	Dark green variety with clear and typical Oakleaf shape.	
<b>LS9992*</b>	Blond/green	Oak leaves	Bl: 1-27	Nr: 0	Blond/green Oakleaf variety with an excellent 3D leaf shape.	
<b>LS9993*</b>	Dark blond	Oak leaves	Bl: 1-27	Nr: 0	Dark blond very attractive Oakleaf shape.	
<b>LS9491*</b>	Red	Cos	Bl: 1-26	Nr: 0	Red Cos Baby leaf variety with flat leaf shape.	
<b>LS9795*</b>	Red	Lollo	Bl: 1-27	Nr: 0	Sherry red Lollo variety.	
<b>Funly</b>	Blond/green	Batavia	Bl 1-24, 27	–	Blond/green curled Batavia variety.	
<b>Curlita</b>	Green	Endive	–	–	A finely dentated curled variety which gives an excellent presentation in the bag. High yield.	

\* Variety for trials only

# Spinach

## El Real (LDSP930)



### Key benefits

- High resistance (HR) against: Pfs 1-11
- High round leaf shape
- Very erect leaves
- Unique dark-green leaf colour
- Very firm thick leaves with good field standing ability and easy to wash and process
- Sowing period: 1 March – 15 May and 1 August – 31 August
- Harvesting period: 1 May – 15 June and 1 September – 15 October

### Assortment table Spinach

Variety	Colour	Pfs (HR)	Leaf shape	Sowing recommended for	Use	Short description
<b>El Real (LDSP930)</b>	Dark green	Pfs: 1-11	High Round	Spring and autumn	Fresh market and processing	Variety with very erect leaves and good field standing ability. Dark green colour.
<b>Rubia (LDSP903)*</b>	Red vein	Pfs: 1-8, 11	High round	Spring and autumn	Fresh market and processing	Spinach variety with red veins. Unique taste and texture.
<b>El Grinta</b>	Green	Pfs: 1-10	Round	Spring and autumn	Fresh market and processing	Savoyed spinach which helps prevent sticking in the bag. Earlier than El Forte.
<b>El Forte</b>	Green	Pfs: 1-10	High round	Spring and autumn	Fresh market and processing	Later than El Grinta and more bolting tolerant but also a savoyed spinach which helps prevent sticking in the bag.

\* Variety for trials only



# Endive

## Armantes



### Key benefits

- New high yielding Scarole variety
- Ideal for the summer due to improved bolting tolerance
- Very good filling and volume
- High number of smaller leaves
- Ideal for the processing industry and also suitable
- also for the fresh market

## Brillantes



### Key benefits

- Attractive presentation with strong contrast between the yellow heart and the green crown
- Large leaf volume and weight
- Clean base
- Strong tolerance to bolting
- Good variety for spring, summer and autumn production

### Assortment table Endive, Scarole and Curled

Variety	Colour	Volume	Planting recommended for	Use	Short description
<b>Endive scarole</b>					
<b>Armantes</b>	Green	***	Summer	Processing and fresh market	High yielding variety. Ideal for summer. More compact than Brillantes. Improved bolting tolerance compared to Ramones.
<b>Brillantes</b>	Green	****	Spring and autumn	Processing and fresh market	High yielding variety. Good performance throughout the season in the UK. High amount of blanched leaves in the heart.
<b>ES9220*</b>	Green	***	Spring and autumn	Processing and fresh market	New Endive with excellent vigour and weight in cold conditions.
<b>Endive curled (Frisee)</b>					
<b>Jolie</b>	Green	***	Spring and autumn	Fresh market and processing	Classic curled Endive, with bolting tolerance for spring. Vigorous and high yielding variety. Easy to blanch. Good field standing ability.

\* Variety for trials only

# Glasshouse Lettuce

# Butterhead

## Nisava (LS8227)



### Key benefits

- Blond indoor Butterhead with good volume
- Bl: 1-25, 27 (HR) and Nr: 0 (HR)
- Fast growing and heading
- Strong against tipburn
- Attractive closed downside
- Good box filling
- Good shelf life

### Assortment table Glasshouse Butterhead

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>Tonava</b>	Green	Bl: 1-25, 27	–	****	Long day	Fresh market	Voluminous variety with flat head and long harvest window.
<b>LS9226*</b>	Green	Bl: 1-27	–	***	Long day	Fresh market	Large-framed round lettuce offering high Bremia resistance.
<b>LS8221*</b>	Green	Bl: 1-27	–	***	Long day	Fresh market	Round lettuce with high Bremia resistance.
<b>Nisava (LS8227)</b>	Green	Bl: 1-25, 27	Nr: 0	****	Long day	Fresh market	Blond/green variety with good filling and volume.

\* Variety for trials only

# Batavia

## LS9331



### Key benefits

- Excellent presentation with a well-packed heart and an attractive bright green colour
- Easy to handle thanks to its well-proportioned volume and filling
- High resistance (HR) to Bremia BI 1-27
- A product which fills out early and reaches a good weight
- A good standing ability in the field
- A plant which is easy to cut and to pack due to its loose base and its well-filled heart

### Assortment table Glasshouse Batavia

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description
<b>LS9331</b>	Green	Bl: 1-27	–	****	Short day	Fresh market and processing	Variety with good volume and early filling.
<b>Funsong</b>	Green	Bl: 1-25, 27	–	***	Short day	Fresh market and processing	Very attractive indoor winter Batavia variety. Semi-open head. Good volume and weight.
<b>Funarte</b>	Green	Bl: 1-16, 18-20, 22-25, 27	–	***	Short day	Fresh market and processing	Open Batavia variety with high uniformity and equally sized leaves. Sweet taste.

### Assortment table Glasshouse BellaGio®

Variety	Colour	Bremia (HR)	Nasonovia (HR)	Volume	Planting recommended for	Use	Short description	Leaf picture
<b>LS9401*</b>	Blond/green	Bl: 1-27	–	***	Short day	Fresh market and processing	Indoor variety with a shape similar to Curletta. Sweet and crunchy taste.	

# Diseases in Lettuce

## Pests



### Green peach aphid (*Myzus persicae*)

These heterophagous aphids suck on the heart leaves of plants and, as well as leaf damage and stunted growth, also produce honeydew and, subsequently, sooty mould. Furthermore, *Myzus persicae* is also considered to be a virus carrier. It is therefore imperative that timely action is taken against this pest on its first appearance.



### Lettuce aphid (*Nasonovia ribisnigri*)

*Nasonovia* prefers to suck on heart leaves. In addition to the physical leaf damage which it immediately causes through sucking, this pest also causes honeydew contamination and subsequently sooty mould. Complete freedom from these aphids can only be achieved through the use of a combination of *Nasonovia*-resistant lettuce varieties and insecticides (treatments and foliar applications).



### Potato aphid (*Aulacorthum solani*)

The potato aphid generally overwinters in greenhouses. In addition to liking lettuce, it likes to feed on numerous arable crops, such as varieties of vegetable and ornamental plants grown both outdoors and under glass. Crimping and deformities occur if young leaves are attacked. Secondary damage as a result of the transmission of viruses is a common problem.



### Leaf miner (*Liriomyza spec.*)

Attacks by leaf miners are common under glass but more infrequent outdoors. In addition to liking lettuce, leaf miners feed on cucumbers, tomatoes, peppers and various ornamental plants. The larvae cause gently winding, serpentine-like mining patterns on the leaves. In cases of intense infestation leaf loss can occur.

## Diseases



### Downy mildew (*Bremia lactucae*)

*Bremia* can infect lettuce at any time during its period of culture and prefer high levels of humidity or water when doing so. The fungus displays a high level of variability, constantly develops new pathotypes and therefore could break down the resistance of the lettuce varieties.



### Bottom Rot (*Rhizoctonia solani*)

This rot occurs most often in lettuce growing under cool, damp conditions. The outer leaves of the head which are lying on the ground, rot and become brownish-black in colour. Heads of lettuce that have been attacked can then only be sold once a substantial amount of time and effort has been put into trimming them.



### White mould (*Sclerotinia sclerotiorum*)

*Sclerotinia* first infects lettuce plants via the outer leaves through mycelia. The rot then rapidly expands to cover the whole plant and can lead to the complete loss of the plant. The fungus, in the form of sclerotia in the ground, outlives the plant for a very long time. Measures for combatting this mould should be taken on bedding out or shortly after planting and may need to be repeated.



### Grey mould on Lettuce (*Botrytis cinerea*)

The fungus infects plants via points of damage and through weakened plant tissue. A grey fungal film rapidly forms on the affected plant parts (leaves, stalks). The plant then starts to rot and dies off. Grey mould rot usually sets in shortly after planting or before harvest.

# Crop Protection Products

Crop	Growth stage	Water volume l/ha	Best nozzle	Reduced drift option	General purpose	Notes
Lettuce	Small open	100-200	AMISTAR nozzle	AMISTAR nozzle	110° Fan Jet	Run-off is the enemy of small plants
	Hearted	300-800	65-06 or 08 Syngenta vegetable nozzle	110° Air induction	110° Fan Jet	



AMISTAR nozzle



06 Vegetable nozzle



08 Vegetable nozzle



- Highly specific against aphids
- Multiple modes of action
- Excellent environmental profile
- An essential part of an Integrated Crop Management programme



- Zeon micro-capsule formulation
- Improved foliar persistence
- Excellent aphid knockdown and repellency
- Water based formulation
- Superior rainfastness
- Approved for an unrivalled range of crops and insect pests

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ALWAYS READ THE LABEL. USE PESTICIDES SAFELY.



# Planting advice for Lettuce

Variety	Colour	Characteristics
<b>Bellagio Outdoor</b>		
<b>Rodagio (LS9429)</b>	Red/ Green	Bred to meet the needs of the fresh cut industry. One-cut lettuce producing a high number of even-sized leaves and minimal waste. Good field holding and yield.
<b>Robinio</b>	Red	Highly attractive leaf colour and shape. Early season production recommended due to Bremia susceptibility.
<b>LS9424*</b>	Green	Compact blond BellaGio®.
<b>LS9425*</b>	Green	High-yielding blond BellaGio® with erect profile and long 3D leaf. Small cutting point.
<b>Iceberg</b>		
<b>Iceking</b>	Green	Fast maturing variety suited to early and late season use. Performs well under early fleece in Northern England, Ireland and Scotland.
<b>Challenge</b>	Green	The standard Iceberg variety for summer production.
<b>Cos</b>		
<b>Musena</b>	Green	Upright well-filled heart. Strong against bolting and internal tipburn. Strong against twisting. Multi-purpose variety.
<b>Chatina (LS7863)*</b>	Green	Fast growing, large-framed Cos for the processing and wholehead markets. Good flavour and attractive internal blanche.
<b>LS9858</b>	Green	Midi Romaine suitable for whole head, hearts and processing.
<b>Mordore (LS8876)</b>	Red/ Green	Mini red Cos with red outer leaves and contrasting red tops to brilliant green inner leaves. Suitable for whole season use.
<b>Gem</b>		
<b>LS8801*</b>	Green	Mid-green Gem for spring and autumn production.
<b>Butterhead Outdoor</b>		
<b>Beltran (LS8693)</b>	Green	Traditional round lettuce with tipburn tolerance.
<b>Batavia Outdoor</b>		
<b>Funride (LS7775)</b>	Green	Replacement for Funtaste and Funtime. High Bremia resistance. Suitable for full season production.
<b>Cetero (LS8474)</b>	Green	New compact Batavia with small dark green, glossy leaves.
<b>Funfix</b>	Green	For wholehead market. Suitable for spring and autumn production.
<b>Funtasia</b>	Green	For wholehead market. Suitable for full season production.
<b>Funtaste</b>	Green	Open Batavia for full season production.
<b>Funtime</b>	Green	Open Batavia for spring and autumn production.
<b>Oakleaf Outdoor</b>		
<b>Sansula</b>	Green	Dark green dual purpose variety. High number of leaves with small cut surface. Robust crunch and sweet leaves.
<b>LS7994</b>	Red/ Green	Triple red Oakleaf with green leaf base. Can be used as whole head in twin pack with LS7993 or in salad bag mixes.
<b>LS7993</b>	Green	Green Oakleaf. Compact variety, sweet and crunchy.
<b>Lollo</b>		
<b>Klausia</b>	Red	Double red Lollo with good field tolerance.
<b>Butterhead</b>		
<b>Tonava</b>	Green	Highly reliable in all conditions.
<b>LS9226*</b>	Green	Large-framed round lettuce offering high Bremia resistance.
<b>LS8221*</b>	Green	15 to a box variety with high Bremia resistance.

\*Variety for trials only



# Planting advice for Endive

## Planting plan for Endive \*\*

Variety	Characteristics
<b>Scarole</b>	
<b>Brillantes</b>	Green Scarole. High volume and weight. Good heart filling and bolting tolerance. Spring and autumn production on the continent but can be grown full season in the UK.
<b>Armantes (ES8217)</b>	Green Scarole for summer production.
<b>Intermediate</b>	
<b>EF7405</b>	New Endive. Sweet, intermediate type - between curly type and Scarole.
<b>Coarse Frisee</b>	
<b>Jolie</b>	Classic curled Endive with good bolting tolerance. Vigourous heavy plant with good field standing.

# Sowing advice for spinach (fresh market)

## Sowing plan spinach, fresh market \*\*

Variety	Characteristics
<b>Spinach</b>	
<b>El Real (SP930)</b>	Unique dark green, round leaf. Firm, erect leaves and good field standing ability. Easy to wash and process.
<b>Rubia (SP903)</b>	Variety with high, round leaf shape with red vein. Unique taste and good texture. Easy to wash and process.

\*\* Based on trials in NW Europe. For local requirements, please discuss with your representative.

Planting week																										
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Resistances	Sowing week																										
Pfs (HR)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
1 – 11	X	X	X	X	X	X	X	X	X	X	X												X	X	X	X	X
1 – 8, 11	X	X	X	X	X	X	X	X	X	X	X												X	X	X	X	X



## Immunity

Not subject to attack or infection by a specified pest or pathogen.

## Resistance

Resistance is the ability of a plant variety to restrict the growth and development of a specified pest or 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.

### Two levels of resistance are defined:

#### High/standard resistance (HR\*)

Plant varieties that highly restrict the growth and development of the specified 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.

#### Moderate/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 high/standard resistant varieties. Moderately/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.

The Vegetable Section of ISF recommends, as it pertains to biotic stress, that its members use the terms immunity, high/standard or moderate/intermediate resistance and susceptibility and to avoid the term tolerance in communications with their customers.

Tolerance is the ability of a plant variety to endure abiotic stress without serious consequences for growth, appearance and yield. Vegetable companies will continue to use tolerance for abiotic stress.

### Legend

Bl: Bremia lactucae Nr: Nasonovia ribisnigri Pfs: Peronospora farinosa

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Syngenta Seeds Vegetables has exercised reasonable care and skill in compiling this brochure. All resistances quoted refer only to races or pathotypes indicated at the varieties. Other pathogen races or pest biotypes capable of overcoming the resistance may exist or emerge. Syngenta Seeds Vegetables use highly elaborate analytical methods to verify specific variety resistances. Specificity of pests or pathogens may vary over time and space and depends on environmental factors. In order to maximize the efficiency of a resistance, it is highly recommended to mix different ways of control such as growing conditions, plant protection products and genetic resistance as part of an integrated crop management. All data in this brochure is intended for general guidance only and the user should apply it in accordance with their own knowledge and experience of local conditions. In case of doubt we recommend that a small scale trial production be carried out to determine how local conditions may affect the variety. Syngenta Seeds cannot accept any liability in connection with this brochure.