

Catalogue Nordic Baltic  
**2023**



Organic is our habitat

| Cucumber                           | Heated | Non-heated | Spring | Summer | Fruitlength (cm) | Resistances   |                   | Comments   |
|------------------------------------|--------|------------|--------|--------|------------------|---------------|-------------------|--|
|                                    |        |            |        |        |                  | Hr            | Ir                |  |
| <b>Cucumber Long European Type</b> |        |            |        |        |                  |               |                   |  |
| Galaxy F1                          | ✓      | ✓          |        | ✓      | 30               | Cca/Ccu       | Px                | Vigorous plant. Good setting. Handles less heating well.   |
| Dee Gree F1                        | ✓      |            | ✓      |        | 30               | Ccu           | CMV/CVYV/Px/CGMMV | Green Mottle Mosaic resistant variety for spring. Excellent fruit quality until the end.   |
| Dee Lite F1                        | ✓      |            | ✓      |        | 31               | Cca/Ccu/CGMMV | Px/CMV/CVYV       | Green Mottle Mosaic resistant variety for summer and autumn. Easy growing, powerful plant.   |
| Dee Zire F1                        | ✓      |            |        | ✓      | 31               | Ccu/CGMMV     | Px/CMV            | Green Mottle Mosaic resistant variety for summer. Generative plant, compact open plant habit.  |
| Dee Rect F1                        | ✓      |            | ✓      | ✓      | 30               | Cca/Ccu/CGMMV | CMV/CVYV/Px       | Dee Rect offers high resistance towards CGMMV, strong plant type with consistent fruit quality and length. Summer High Wire and light crops. |
| Kalunga F1                         |        | ✓          | ✓      | ✓      | 31               | Cca/Ccu       | Px                | Flexible, mid-early, easy to grow.   |
| Dee Jay F1                         | ✓      | ✓          | ✓      | ✓      | 32               | Cca/Ccu       | CVYV/Px/CGMMV     | Long and fast plant with nice fruits with good length. With good virus-resistance.   |
| Torreon F1                         | ✓      |            | ✓      | ✓      | 33               | Cca/Ccu       | Px                | Medium strong vigour, early.   |
| Tyria F1                           |        | ✓          | ✓      | ✓      | 34               | Cca/Ccu       | Px                | Strong vigour, strong roots.   |
| <b>Cucumber Mini</b>               |        |            |        |        |                  |               |                   |  |
| Picolino F1                        | ✓      | ✓          | ✓      | ✓      | 14               | Cca/Ccu       | Px/CMV/CVYV       | Adaptable, productive, multi fruiting.   |
| Katrina F1                         | ✓      | ✓          | ✓      | ✓      | 17               | Ccu           | CMV/CVYV/Px/CGMMV | Standard. Strong vigour. Multi fruiting.   |

HR: High Resistance | IR: Intermediate Resistance. For an explanation of the resistance codes displayed please see page 11.



All our seeds are produced organically. The seeds are grown in compliance with EU-regulation 834/2007 for organic production. Our SKAL registration number is 014978.



| Tomato                    | Average weight not pruned (g) | Heated | Non-heated | Tunnel | Truss | Resistances                                 |               |    | Comments  |
|---------------------------|-------------------------------|--------|------------|--------|-------|---|---------------|----|---|
|                           |                               |        |            |        |       | Hr  | Ir            | Tr |   |
| <b>Beef</b>               |                               |        |            |        |       |   |               |    |   |
| Forenza F1                | 220                           | ✓      |            |        |       | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1           | On/Ma/Mi/Mj   |    | Powerfull, but labour friendly plant type. Very early harvest.      |
| Rally F1                  | 230                           |        | ✓          | ✓      |       | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1           | TSWV/Ma/Mi/Mj |    | Very early in production. Flat-round fruits.                        |
| Dimerosa F1               | 250                           |        | ✓          |        |       | ToMV:0-2/ToANV/Ff:A-E/Aal/Va:0/Vd:0/Fol:0,1 | TSWV/TYLCV/Ss |    | Pink fruits. Early and good production.                             |
| Grifone F1                | >200                          |        | ✓          | ✓      |       | ToMV:0-2/ToANV/Va:0/Vd:0/Fol:0              | TSWV          |    | A Coeur de Boeuf type with a very good taste and shelflife.         |
| <b>Normal, round</b>      |                               |        |            |        |       |   |               |    |   |
| Avalantino F1             | 75                            | ✓      | ✓          |        | ✓     | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For       | On            | Si | Excellent taste. Nice truss.  |
| Sparta F1                 | 110                           |        | ✓          | ✓      |       | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1           | Ma/Mi/Mj      |    | All round variety, good taste.                                      |
| Codino F1                 | 110                           | ✓      | ✓          |        | ✓     | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For       | TSWV/On       | Si | Open plant. Nice truss.   |
| Bocati F1                 | 110                           | ✓      | ✓          |        | ✓     | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For       | On            | Si | Easy setting, useful resistance package.                            |
| Chelino F1                | 110                           | ✓      |            |        | ✓     | ToMV:0-2/ToANV/Ff:A-E/Va:0/Vd:0/Fol:0,1/For | On/Ma/Mi/Mj   | Si | Semi jointless with full resistance. Very attractive fruit quality. |
| <b>Cocktail</b>           |                               |        |            |        |       |   |               |    |   |
| Annamay F1                | 40                            | ✓      | ✓          |        | ✓     | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1           | On            | Si | Nice truss, high yield.   |
| Devotion F1               | 55                            | ✓      | ✓          |        | ✓     | ToMV:0-2/Va:0/Vd:0/Fol:0,1/For              | Ma/Mi/Mj      | Si | Strong against russetting and goldspeck.                            |
| Temptation F1             | 65                            | ✓      |            |        | ✓     | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For       |               | Si | Eight fruits per truss, very nice taste.                            |
| <b>Cherry</b>             |                               |        |            |        |       |   |               |    |   |
| Perlati F1                | 19                            | ✓      | ✓          | ✓      |       | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1           | On/Ma/Mi/Mj   | Si | Very sweet and many resistances.                                    |
| Sakura F1                 | 22                            |        | ✓          | ✓      | ✓     | ToMV:0-2/Ff:A-E/Fol:0,1                     | Ma/Mi/Mj      | Si | All round variety, vigorous, high yield.                            |
| <b>Plum, small, large</b> |                               |        |            |        |       |   |               |    |   |
| Garincha F1               | 12                            | ✓      |            |        |       | ToMV:0-2/Fol:0,1                            | TSWV/Ma/Mi/Mj |    | Intense sweet tasting fruits. Strong against fruit fall.            |
| Gustafano F1              | 25                            | ✓      |            |        | ✓     | ToMV:0-2/Ff:A-E/Fol:0,1                     |               | Si | Mini plum with nice shape and excellent taste.                      |
| Matthew F1                | 34                            | ✓      |            |        |       | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For       |               | Si | Orange coloured mini plum.  |
| Ardiles F1                | 35                            | ✓      | ✓          | ✓      | ✓     | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For       | On/Ma/Mi/Mj   | Si | Midi plum. Very nice truss.   |
| Loreto F1                 | 80                            | ✓      | ✓          |        | ✓     | ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1           |               |    | Vigorous, good production.  |
| <b>San Marzano</b>        |                               |        |            |        |       |   |               |    |   |
| Pozzano F1                | 135                           |        | ✓          | ✓      |       | ToMV:0-2/Va:0/Vd:0/Fol:0,1                  |               |    | Non-greenback. Good fruit quality.                                  |

















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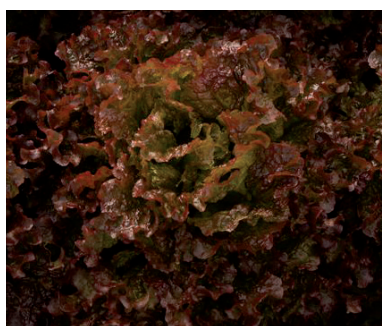
| Pepper                  | Type  | Heated | Non-heated | Fruitsize (mm) | Resistances |    | Comments  |
|-------------------------|---|--------|------------|----------------|-------------|----|---|
|                         |   |        |            |                | Hr          | Ir |   |
| <b>Blocky Red/Green</b> |   |        |            |                |             |    |   |
| Artega F1               |    | ✓      |            | 70-75          | Tm:0-2      |    | Strong crop. Fast colouring, quality fruits.                                |
| Bendigo F1              |    |        | ✓          | 75-80          | Tm:0        |    | Easy grower in NW-Europe. For cold greenhouse.                              |
| Maranello F1            |    | ✓      |            | 85             | Tm:0-2      |    | Compact plant type. Easy setting.   |
| <b>Blocky Orange</b>    |   |        |            |                |             |    |   |
| Orbit F1                |    | ✓      |            | 85-90          | Tm:0-3      |    | Early and high yielding variety. Firm, heavy fruits.                        |
| <b>Blocky Yellow</b>    |   |        |            |                |             |    |   |
| Fiesta F1               |    | ✓      | ✓          | 75-80          | Tm:0-2      |    | Regular setting, quality fruits.  |
| Gialte F1               |    | ✓      |            | 80-85          | Tm:0-3      |    | Fast. High yield and excellent shelflife.                                   |
| <b>Sweet Conical</b>    |   |        |            |                |             |    |   |
| Alderney F1             |    | ✓      | ✓          | 35x145         | Tm:0-2      |    | Red conical with AFW of 100 - 110 gr. Quite strong plant. Brix 8.5.         |
| Guernsey F1             |    | ✓      | ✓          | 35x145         | Tm:0-2      |    | Orange. Remarkable flavour. Vigorous, open and quite compact plant. Brix 9. |
| Jersey F1               |  | ✓      | ✓          | 45x190         | Tm:0        |    | Yellow fruits with consistent quality and size. Brix 8.5.                   |

















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| Lettuce                        | Colour<br>① = green ② = red |  = Greenhouse<br> = Open field | Season |        |        |        | Resistances                   |               | Comments   |
|--------------------------------|-----------------------------|--|--------|--------|--------|--------|-------------------------------|---------------|--|
|                                |                             |  | Spring | Summer | Autumn | Winter | Hr                            | Ir            |  |
|                                |                             |  |        |        |        |        |                               |               |  |
| <b>Butterhead Lettuce</b>      |                             |  |        |        |        |        |                               |               |  |
| Aferdita                       | ①                           |   | ✓      | ✓      | ✓      |        | Bl:16-37EU/Nr:0               | LMV:1         | Medium-large sized, good field holding ability, nice shiny dark outer leaves.  |
| Sinisa                         | ①                           |   | ✓      | ✓      | ✓      |        | Bl:16-37EU/Nr:0               | LMV:1         | Medium sized red butterhead. Nice, shiny red colour. Strong against bolting and internal tipburn.                        |
| Casey                          | ①                           |   | ✓      | ✓      | ✓      |        | Bl: 16-37EU/Nr:0/Pb           |               | Medium sized. Flat, clean and nicely closed base. Suited for hydroponic.   |
| <b>Iceberg Lettuce</b>         |                             |  |        |        |        |        |                               |               |  |
| Philemo                        | ①                           |   |        | ✓      | ✓      |        | Bl:16-37EU/Nr:0               |               | Medium large size for summer and autumn crops. Easy to harvest, strong against tipburn.                                  |
| Eduardo                        | ①                           |   |        | ✓      | ✓      |        | Bl:16-37EU/Nr:0/Pb            |               | Reliable late spring until late autumn variety. Proved itself during cold summer.  |
| Danilo                         | ①                           |   |        | ✓      |        |        | Bl: 16-37EU/Nr:0              |               | Slow filling variety. Nice layering and small cut surface. Good on sandy soils.  |
| Rodolfo                        | ①                           |   | ✓      |        | ✓      |        | Bl:16-37EU/Nr:0/Pb            |               | New variety for the early protected spring crops, but the variety can also handle warmer spring conditions.              |
| Salvio                         | ①                           |   |        | ✓      | ✓      |        | Bl: 16-37EU/Nr:0/Pb           |               | Medium large variety with good fieldholding ability. Slow bolting and strong against tipburn.                            |
| <b>Batavia Lettuce Open</b>    |                             |  |        |        |        |        |                               |               |  |
| Olana                          | ①                           |   | ✓      | ✓      | ✓      |        | Bl:16-36EU/Nr:0/TBSV          | LMV:1         | Good colour, volume and weight. Wide window use.   |
| Gylona (E01F.30902) <b>New</b> | ①                           |   | ✓      | ✓      | ✓      |        | Bl:16-37EU/Nr:0/TBSV          | LMV:1/Fol:1,4 | Gylona offers a very strong base with small cutting surface, good volume and filling. Mid-green colour and nice frill.   |
| Lioba                          | ②                           |   | ✓      | ✓      | ✓      |        | Bl: 16-27,29,32,34,36EU       | LMV:1         | Red batavia with upright plant type and good bolting tolerance.  |
| <b>Romaine Lettuce</b>         |                             |  |        |        |        |        |                               |               |  |
| Adicamp                        | ①                           |   | ✓      | ✓      | ✓      |        | Bl:16, 18-37EU/Nr:0/Pb/TBSV   | Ss            | Adicamp offers a dark green colour; upright growth and shape. Very strong against internal tipburn, and easy to harvest. |
| Jara                           | ①                           |   | ✓      | ✓      | ✓      |        | Bl: 16-36EU/Nr:0/Fol:1,4/TBSV |               | Very upright midi romaine with well closed top. Strong against tipburn.  |
| Airton                         | ①                           |   | ✓      | ✓      | ✓      |        | Bl:16-36EU/Nr:0/TBSV          |               | Midi cos with good ITB tolerance, a nice heart, perfect internal quality, good performance under heat stress.            |

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| Lettuce                               | Colour<br>①=green ②=red | Greenhouse<br>= Open field  | Season |        |        |        | Resistances                   |             | Comments  |
|---------------------------------------|-------------------------|---|--------|--------|--------|--------|-------------------------------|-------------|---|
|                                       |                         |   | Spring | Summer | Autumn | Winter | Hr                            | Ir          |   |
| <b>Romaine Lettuce Mini</b>           |                         |   |        |        |        |        |                               |             |   |
| Xamena                                | ①                       |    | ✓      | ✓      | ✓      |        | Bl:16-36EU/Nr:0/TBSV          | LMV:1/Fol:1 | Bit shorter mini cos. Nice yellow heart with good closing. High quality.  |
| Xanstart (E01G.11349) <b>New</b>      | ①                       |    | ✓      | ✓      | ✓      |        | Bl:16-37EU/Nr:0               | LMV:1       | Xanstart is faster and longer than Xamena. Attractive dark green colour. Very strong against tipburn and bolting.   |
| Xoana                                 | ①                       |    | ✓      | ✓      | ✓      |        | Bl:16-37EU/Fol:1/Nr:0/TBSV    | LMV:1/Ss    | Slow filling Xaroma type with slightly savoyed dark green and shiny leaves. Very strong against tipburn and bolting.  |
| Landred (E01G.11685) <b>New</b>       | ②                       |    | ✓      | ✓      | ✓      |        | Bl: 16-37EU/Fol:1,4/Nr:0/TBSV |             | A new red mini cos with a very nice colour. Strong against internal tipburn.  |
| <b>Little Gem Lettuce</b>             |                         |   |        |        |        |        |                               |             |   |
| Alborada                              | ①                       |    | ✓      | ✓      | ✓      |        | Bl:16-36EU/Fol:1/Nr:0/TBSV    |             | Dark-green 8-10 cm little gem with good quality yellow hearts.  |
| Invernalía <b>New</b>                 | ①                       |    | ✓      | ✓      | ✓      |        | Bl: 16-37EU/Nr:0              | LMV:1       | Invernalía is a dark green little gem offering a strong ITB tolerance, a good shape and size.   |
| <b>Oakleaf Lettuce</b>                |                         |   |        |        |        |        |                               |             |   |
| Avenir                                | ①                       |    | ✓      | ✓      | ✓      |        | Bl: 16-37EU/Nr:0/TBSV         | LMV:1       | Fast filling, flat growth and long harvest window.  |
| Alonix                                | ②                       |   | ✓      | ✓      | ✓      |        | Bl: 16-37EU/Nr:0/Pb/TBSV      |             | Attractive red glossy colour. Strong against tipburn and bolting.   |
| <b>Lollo Rossa &amp; Lollo Bionda</b> |                         |   |        |        |        |        |                               |             |   |
| Babila (E01L.30837) <b>New</b>        | ①                       |  | ✓      | ✓      | ✓      |        | Bl:16-37EU/Nr:0               | LMV:1       | Strong green colour and good leaf texture. Good weight, strong on bolting and also a very good shelflife on the processed leaves.   |
| Jokary                                | ①                       |  | ✓      | ✓      | ✓      |        | Bl: 16-36EU/Nr:0              |             | Large framed. Excellent presentation in the box. Suited for hydroponic.   |
| Anesca (E01L.30835) <b>New</b>        | ②                       |  | ✓      | ✓      | ✓      |        | Bl:16-37EU/Nr:0               |             | Anesca offers a good cherry double red colour and a fine frill, attractive round heads with upright base.   |
| Azirka                                | ②                       |  | ✓      | ✓      | ✓      |        | Bl:16-36EU/Nr:0/TBSV          | LMV:1       | Triple red lollo / batavia offering very thick, crunchy and tasty leaves, round shaped and has a nice medium size with 3-D structure. Suitable for an open field and hydroponic crop. |
| <b>Babyleaf</b>                       |                         |   |        |        |        |        |                               |             |   |
| Clearwater                            | ①                       |  | ✓      | ✓      | ✓      |        | Bl:16-36EU/Nr:0/TBSV          | LMV:1       | Green oakleaf with firm leaves.   |
| Celinet                               | ①                       |  | ✓      | ✓      | ✓      |        | Bl:16-36EU/Nr:0/TBSV          | LMV:1       | Green batavia. Flexible leaves with good frill.   |
| Rosalo                                | ②                       |  | ✓      | ✓      | ✓      |        | Bl:16-37EU/Nr:0               |             | Shiny dark red babyleaf with excellent leaf structure and frill.  |
| Sadawi                                | ②                       |  | ✓      | ✓      | ✓      |        | Bl:16-36EU/Nr:0/TBSV          |             | Red oakleaf type for babyleaf.  |

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| Various Crops                             |                     | Resistances      |                      | Comments  |
|---|---------------------|------------------|----------------------|---|
|   |                     | Hr               | Ir                   |   |
| <b>Leafy Vegetables</b>                   |                     |                  |                      |   |
| Curled Endive<br>(Cichorium endivia)      | Myrna               |                  |                      | Reliable and good sized.  |
|   | Benefine            |                  |                      | Reliable TFM-type with attractive shiny dark colour.  |
| Spinach<br>(Spinacea oleracea)            | Acadia F1           | Pe:1-13,15,16,18 |                      | Main season spinach with medium sized oval shaped leaves.                                   |
|   | Crosstrek F1        | Pe:1-16,19       | Pe:17,18             | Spring & autumn variety. Good leaf structure. Semi-savoyed leaves.                          |
| Garden Cress<br>(Lepidium sativum)        | Sprint              |                  |                      | Grown as seedlings, mustard family.   |
| <b>Fruit Vegetables</b>                   |                     |                  |                      |   |
| Eggplant<br>(Solanum melongena)           | Bartok F1           |                  |                      | Half-long type. Heated/non heated greenhouse. Excellent fruit quality.                      |
|   | Mirka F1            |                  |                      | Elongated oval type. Tunnel or open field, strong vigour.                                   |
| Red Pumpkin<br>(Cucurbita maxima)         | Bright Summer F1    |                  | ZYMV/WMV/PRSV        | F1 hybrid, very high yield. Fruit weight 0.5 - 1.2 KG.                                      |
|   | Orange Summer F1    |                  |                      | F1 hybrid with high yield, orange fruits with excellent taste. Fruit size 1.2 – 1.8 kg.     |
|   | Kaori Kuri F1       |                  | ZYMV/WMV/PRSV        | F1 hybrid with very uniform fruit size between 1.0 - 1.5 kg. High storage potential.        |
|   | Flexi Kuri F1       |                  | ZYMV/WMV/PRSV        | Easy growing F1 hybrid with fruit size between 1.2 - 1.8 kg. High production potential.     |
| Pumpkin Butternut<br>(Cucurbita moschata) | Havana F1           |                  | Px/ZYMV              | Butternut F1 hybrid. Fruits 1.0 - 1.5 kg. Good storability and high yield.                  |
|   | Musquée de Provence |                  |                      | Traditional French variety, large fruits.   |
| Zucchini/Courgette<br>(Cucurbita pepo)    | Yellowfin F1        |                  | Px/CMV               | Yellow squash.  |
|   | Dunja F1            |                  | Px/ZYMV/WMV/PRSV     | Dark green, multiresistant to viruses.  |
|   | Zelia F1            |                  | Px/CMV/ZYMV/WMV/PRSV | Mid green robust variety with a strong root system. Multi resistant to virus including CMV. |
|   | Arendo174 F1        |                  | Px/ZYMV/WMV/PRSV     | Light green fruits. High yield of good quality.   |
| Melon<br>(Cucumis melo)                   | Artémis F1          | Fom:0,1,2        | Px:1,2,5/Ag          | Artemis is a semi-netted Charentais-type with a strong plant.                               |

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| Various Crops                      |             | Comments  |
|------------------------------------|-------------|---|
| <b>Cabbage (Brassica oleracea)</b> |             |   |
| Kohlrabi                           | Vikora F1   | For open field, all season.   |
| <b>Bulb and Root Vegetables</b>    |             |   |
| Leek<br>(Allium ampeloprasum)      | Chinook F1  | Early summer variety offering long shank and fast growth.   |
|                                    | Comanche F1 | Summer/ autumn variety with long shank and very upright growth.   |
|                                    | Cherokee F1 | Very upright autumn variety. Healthy and nice blue-green colour.  |
|                                    | Oslo F1     | Autumn variety with good dark colour and very upright growth. Oslo is strong against pests and diseases, offering a high, quality yield. Easy to clean. |
| Fennel<br>(Foeniculum vulgare)     | Preludio F1 | Hybrid fennel with nice round uniform bulb.   |
| Red Beet<br>(Beta vulgaris)        | Alvro Mono  | Early, monogerm beetroot for bunching.  |
| Radish                             | Celesta F1  | Bright red uniform bulbs, strong on cracking. Upright growth habit.   |
|                                    | Estella F1  | Round red radish for open field. Strong foliage with fine tap root.   |

| Herbs       |                  |  |
|-------------|------------------|--|
| Basil       | Marian           | Genovese type with strong, compact plants and very dark leaf colour. Strong against leaf burning and black spots from cold. The standard quality basil.  |
|             | Rosie            | Rosie offers an intense red colour without green inbreeds. The growth is upright and fast with robust stems.   |
| Chives      | Nelly            | A fine to medium thick shafted chive variety with dark blue-green colour. Very vigorous and upright growing. Strong against diseases and thrips spots on the leaves. For fresh market and industry purposes. |
| Dill        | Ella             | The appreciated very dark standard with short hypocotyl for pots or short quality bundles. Medium strong on bolting.   |
|             | Goldkrone        | Well-known high yielding standard for open field or pot production, where a larger size is preferred. Late flowering and blue-green colour.  |
|             | Greensleeves     | For high quality bundles. Dark green coloured variety for fresh market. Faster bolting compared with Goldkrone, but higher quality bundles.  |
| Parsley     | Gigante D'Italia | Plainleaved standard parsley for pots and bunching.  |
|             | Wega             | Wega is medium fine and has early curled leaves with very upright and sturdy growth. Good shelflife, uniform and high yield.   |
| Gardencress | Sprint           | Very fast growing, uniform standard gardencress.   |
| Coriander   | Marino           | Reliable selection with thick leaves and fine stems. Strong against bolting, high production and aromatic.   |
| Sage        | Fanni            | Standard green sage for potproduction and bunching.  |
| Thyme       | German Winter    | The appreciated standard for potproduction and bunching.   |
| Lemonbalm   | Citrina          | Citrina has an intensive lemon scent. Improved default selection.  |
| Oregano     | Greek            | Greek oregano offers smaller and firmer leaves with an intense aroma and quality.  |





## Article 1 - Definitions

1. Buyer shall mean the natural person or legal entity entering into a contract of sale with Vitalis for the purchase of Products.
2. Vitalis shall mean Vitalis Biologische Zaden B.V. having its registered office in (7383 RG) at Hengelderweg 6, Voorst and registered at the Chamber of Commerce.
3. Vitalis and Buyer hereinafter together referred to as the Parties and individually as Party.
4. Incoterms shall mean the Incoterms published by the International Chamber of Commerce in Paris (ICC) and currently in use.
5. Intellectual Property Rights shall mean all current and future intellectual property rights, including but not limited to plant breeder's rights, utility patent rights, patent rights, design rights, copyrights, trade secrets, trademarks and service marks and/or any other rights, throughout the world.
6. Naktuinbouw shall mean the Netherlands Inspection Service for Horticulture having its registered office at Sotaweg 22, Postbus 40, 2370 AA Roelofarendsveen, The Netherlands.
7. Order Confirmation shall mean the written confirmation of acceptance by Vitalis of the Purchase Order, by means of letter, email or packing note.
8. Offer shall mean particular terms applicable to a specific sale proposed by Vitalis to the Buyer.
9. Plant Material shall mean all plants and crops, produced or cultivated out of the Products, and destined for human (and animal) consumption.
10. Products shall mean seeds and planting material delivered by Vitalis to the Buyer.
11. Processing shall mean the treatment of the Product including but not limited to the treatment for the improvement of the sowability, germination, plant quality and the prevention of pests and/or diseases.
12. Price List shall mean an overview of the selling prices of Products that Vitalis publishes and distributes from time to time.
13. Purchase Order shall mean an instruction for the purchase of Products placed by Buyer.
14. Resistance Terminology shall mean the information and terminology provided in the Schedule.
15. Schedule shall mean the annex to the Agreement and to these General Terms and Conditions of Sale.
16. Product Specifications shall mean the information published on the Vitalis websites and pages.

## Article 2 - Applicability of These General Terms and Conditions

1. These General Terms and Conditions of Sale, including the Schedule, shall apply to and be part of all Order Confirmations and Offers from Vitalis to the Buyer relating to Products and are together hereinafter referred to as the "Agreement", unless expressly provided otherwise in the Agreement.
2. The applicability of the Buyer's general (purchase) terms and conditions is herewith explicitly excluded.
3. Vitalis reserves, under its sole discretion, the right to change these Terms and Conditions of Sale from time to time. A new version of The Terms and Conditions of Sale will be applicable and govern the purchase(s) from the time on which Vitalis informed the Buyer of the new version, provided that purchases that are already concluded, will be in accordance with the earlier existing version of The Terms and Conditions of Sale.
4. Any provision of these General Terms and Conditions of Sale that is ruled to be null, void or invalid by a final court judgment or administrative order and is no longer open to appeal, shall be replaced by a provision that approximates as much as possible the purpose and intent of the invalid provision. The invalidity of one of the provisions shall not affect the other provisions agreed by the Parties.
5. A person who is not a party to the Agreement shall not have any rights to enforce its terms or conditions.

## Article 3 - Purchase Order and Order Confirmation

1. Vitalis agrees to sell Products to the Buyer at the rates set forth in Vitalis's Price List or as determined in an Offer.
2. Any Offer made by Vitalis is non-binding and will lapse in any case after five working days, or any other specified time stated by Vitalis.
3. An Agreement shall enter into force between Vitalis and the Buyer upon Order Confirmation or upon acceptance of an Offer. No rights or obligations shall therefore arise between the Parties until the Order Confirmation has been sent or an Offer has been accepted.
4. All Purchase Orders are subject to the usual harvest and processing reservations. In the event of aforementioned reservations, Vitalis is not obliged to deliver but will endeavor to deliver pro-rata quantities and/or comparable alternatives, and Buyer shall not be entitled to any compensation of damages or costs.
5. Vitalis shall use its reasonable endeavors to perform according to the Purchase Order. Nevertheless, Vitalis shall at least be entitled to deviate from the Purchase Order placed by the Buyer with respect to size, packaging, quantity or weight.
6. When placing a Purchase Order, the Buyer shall report which information, specifications and documents are required under the rules and regulations of the country of delivery. The Buyer shall be responsible to inform Vitalis of any formalities that must be complied with to enable import. The Buyer shall also provide Vitalis with information on any required certificates, phytosanitary matters, import documents or invoices.
7. Vitalis is not liable for delays or non-handling of a Purchase Order resulting from or in connection with the Buyer's failure to comply with any of its obligations under Article 3. The Buyer shall be liable for any loss or damage incurred by Vitalis resulting from or in connection with such failure.

## Article 4 - Prices

1. All prices stated by Vitalis in its Price List and/or in an Offer are in Euro's, exclusive of additional charges and costs, including but not limited to handling fees, transport and insurance costs, (quality) certificate costs, value added tax and charges for which Vitalis reserves its rights to invoice Buyer when applicable.
2. All stated prices in the Price List are subject to adjustment by Vitalis. Vitalis reserves the right to unilaterally change the prices. Any new prices will be communicated to the Buyer by Vitalis and substitute earlier listed and/or offered pricing.
3. For distinctive vegetable seed varieties, sold and purchased under specific conditions, an additional price - per square meter or any other quantitative unit - can be charged and included in the Agreement. This additional price will be valid for one single commercial production or cultivation of Plant Material, unless otherwise agreed upon between Parties.

## Article 5 - Cancellation

If a Purchase Order is cancelled by the Buyer after an Agreement has been concluded, the Buyer is liable to pay a minimum of 10% of the price that Vitalis would have charged upon delivery, without limiting Vitalis's right to demand compensation of its damage and costs in full.

## Article 6 - Shipping

1. Vitalis shall endeavor to ship the purchased Products to the Buyer in accordance with the shipping date mentioned in the Order Confirmation or acceptance of the Offer.
2. The shipping date agreed by the Parties is an indication only and should not be regarded

as guaranteed. In the event of delay or failure to ship, the Buyer shall inform Vitalis in writing and shall - as its sole and exclusive remedy - allow Vitalis a further reasonable period of time to ship the Products. In no event shall Vitalis be liable for damage, penalty, loss, injury or expense, due to delay or failure in shipping and/or delivery nor shall Buyer be entitled to terminate the Agreement.

3. Shipping by Vitalis takes place "Carriage Paid To" (CPT, Incoterms) the agreed destination. The Buyer hereby authorizes Vitalis to select the carrier and to charge the cost of transport to the Buyer. The risk of loss of or damage to the Products, as well as any additional costs due to events occurring after the time the Products have been delivered to the carrier is transferred from the Vitalis to the Buyer when the Products have been delivered into the custody of the carrier.

4. When delivering in parts Vitalis will invoice each delivery separately.

## Article 7 - Payment

1. The Buyer shall arrange for payment in Euros within thirty (30) days from the date of invoice by transfer into a bank account specified by Vitalis. Any different payment term must be agreed upon between Parties in the Agreement.
2. The Buyer does not have the right to suspend payment or make deductions or set-offs.
3. The Buyer shall be automatically in default without any notice being required, when not timely meeting any payment term.
4. In case of payment in installments, the Buyer shall be in default without any notice being required in the event of any overdue installment and the remaining installments shall become immediately due.
5. Interest at a rate of one percent per calendar month shall be charged to overdue accounts. Vitalis reserves the right to adjust interest rates having notified the Buyer thereof in due time.
6. Vitalis has the right to proceed with extrajudicial collection of overdue accounts without prior notice being required. The Buyer shall pay all costs of extrajudicial collection amounting to at least 15% of the overdue sum payable at a minimum rate of EUR 250 ex VAT.
7. Payments made by the Buyer shall first serve to reduce the extrajudicial costs of collection due at that point, subsequently the outstanding interest and then the outstanding invoices in date order starting with the oldest invoice.
8. Vitalis reserves the right to suspend performance under any Agreement with the Buyer, including but not limited to withholding all deliveries, until such time as all and any outstanding payments owed by the Buyer to Vitalis under any Agreement have been made.

## Article 8 - Complaints

1. The Buyer shall inspect the Products upon delivery or as soon as possible thereafter. The Buyer shall determine, in accordance with the Agreement, whether:
  - the correct items have been delivered;
  - the correct quantities have been delivered;
  - the items delivered satisfy all quality requirements expressly agreed to in writing by the Parties.
2. The Buyer shall notify Vitalis in writing within five working days after delivery of any visible defect or deficiency. In case of non-visible defects, the written notification must be given within five working days after discovery of the defect.
3. The written notice shall provide the consignment information (seed lot number, the packing slip and the invoice details), the basis for any complaint as well as any supporting evidence (photo's, expert statements etc.) in such a manner that Vitalis or a third party expert can verify the complaint. The Buyer shall maintain records of the use and status of the Products and/or Plant Material. Vitalis is entitled to and the Buyer will unconditionally cooperate at its expense with any inspection, testing or other verification by Vitalis of the Products and/or Plant Material involved.
4. In no event shall the Buyer return the Products unless otherwise agreed by Vitalis in writing.
5. In the event that Vitalis does not receive written notice of a complaint within the applicable time periods, the Buyer shall be deemed to have accepted the Products. All claims for damage or loss not made in writing within the applicable time period shall be deemed waived by the Buyer and the Buyer expressly assumes and accepts all liability for such damage or loss.
6. In the event that the Parties are unable to resolve a dispute regarding the quality of the Products and/or Plant Material, either Party may order an inspection to be performed by Naktuinbouw, with the Party proven to be wrong paying the cost of the inspection. The inspection shall be performed on a certified sample and the findings shall be binding on both Parties, without prejudice to their right to submit disputes concerning the consequences of these findings in accordance with Article 17.
7. The Buyer's exclusive remedy and Vitalis's sole liability under this Article 8 is set out by Article 12, below.

## Article 9 - Reservation of Title

1. Vitalis shall retain title to the Products until the Buyer has complied with all its obligations towards Vitalis including but not limited to payment of invoices, contractual interest and extrajudicial costs of collection.
2. The Buyer may use the Products delivered by Vitalis in the ordinary course of business but may not pledge them or the Plant Material to third parties or otherwise use them as security for claims without Vitalis's prior written consent.
3. In the event that the laws of the country where the Products are delivered provide for farther-reaching possibilities to reserve title other than those contained in this Article, such possibilities shall be deemed to have been agreed by the Parties because the Buyer will be aware from these General Terms and Conditions of Sale that Vitalis's reservation of title in the Products and/or Plant Material is a condition precedent to entering into an Agreement with the Buyer.
4. At the first request of Vitalis, the Buyer shall pledge all the Products and/or Plant Material and all proceeds there from to Vitalis or create any other security satisfactory to Vitalis.

## Article 10 - Force majeure

1. In the event of force majeure and without judicial intervention being required, Vitalis shall be able to wholly or partially suspend execution of the Agreement or, if the event of force majeure persists, to wholly or partially terminate it. In no event shall Vitalis be liable or required to pay any compensation to the Buyer in relation to such suspension or termination.
2. Force majeure means: any circumstance that could not be reasonably foreseen and/or influenced by Vitalis and as a result of which delivery of all or any of the Products is not reasonably possible or cannot reasonably be required. Force majeure includes but is not limited to war, risk of war, riots, floods, water damage, fire, transport difficulties, unforeseen technical complications, breakdowns, strikes at Vitalis or at any third party engaged by Vitalis, blockades, bans on import or export, full or partial seizure or requisition of stocks at Vitalis, any of its subsidiaries or suppliers by civil or military authorities, lack of transport capacity, non-delivery or late delivery by suppliers of Vitalis, machine breakdowns, destruction and other stagnations in the companies of Vitalis, any of its subsidiaries or suppliers as well as scarcity as a result of which delivery of all or any of the Products is not reasonably possible or cannot reasonably be required.
3. Force majeure also means any circumstance that gives reason to rely on the harvesting and processing reservations usual in the seed industry. Such circumstances entitle Vitalis to deliver to the Buyer a pro rata volume of the order, without prejudice to any other rights of Vitalis under this Article.

## Article 11 - Use (License) of the Products and Product Information

1. Vitalis grants the Buyer a non-exclusive, non-transferable and limited license for the duration of the Agreement to use the Products for the sole purpose of a single commercial production or cultivation and sale of Plant Material.
2. The Buyer must not use or cause or permit the use of the Products or Plant Material for any research, breeding, molecular or genetic analysis, crop, seed (re)production, propagation and/or multiplication or for any other purpose other than commercial production or cultivation of Plant Material in accordance with this Article.
3. The Buyer is - except with prior written consent and subject to any conditions from Vitalis - not permitted to supply any Product to any other person or entity for production or cultivation nor distribute, sell, transfer, sublicense, encumber, mortgage, pledge, offer as security any Product to and/or on behalf of any (legal) person or entity.
4. In the event that the Buyer who after receiving written consent from Vitalis sells and transfers Products to a third party shall expressly impose the obligations of Article 11, paragraph 1, 2 and 3 on that third party and provide in its agreement with such third party that these clauses are also included for the benefit of Vitalis, which may rely on them in legal proceedings in case of violation thereof by the third party.
5. The Buyer shall not employ subcontractors for the execution of any of its rights and obligations under these General Terms and Conditions of Sale without prior written consent of Vitalis. Such consent will normally be given by Vitalis upon prior written request from Buyer for the cultivation of Plant Material by a third party for the sole benefit of Buyer, subject to any conditions that Vitalis may require the Buyer to include in its agreement with such third party.
6. All illustrations, catalogues, documents and statements provided by or on behalf of Vitalis about quality, composition, weight, measurement, treatment in the broadest sense, applications and properties of the Products are based as closely as possible on Vitalis's test results and practical experience, however without any guarantee, representation or warranty regarding purpose or performance.
7. The Buyer acknowledges that any information provided by Vitalis in relation to the quality (such as viability, germination, mechanical or genetic purity, seed health) and performance of the Products applies only to the tests done by Vitalis, to the specific seed sample used and to the specific conditions under which the tests were done. The Buyer agrees that the abovementioned information does not constitute an express or implied warranty.
8. The Buyer acknowledges that the results obtained by the Buyer with the Products depend on such factors as the place of cultivation, the conditions prior to and during cultivation, including but not limited to storage of Products, the climate, the soil and crop protection methods used by the Buyer. The Buyer shall be solely responsible for determining the suitability and appropriateness of the use of the Products in the different conditions and/or for the different purposes.
9. Vitalis provides product information to assist the Buyer and under no circumstances shall Vitalis be liable to the Buyer for results deviating from that information. Vitalis shall not be held liable for any information provided in relation to Resistances as defined in Schedule 1, Resistances to diseases indicated per Product, nor the Product Specifications as published on the Vitalis websites and pages.
10. Any and all warranties shall lapse and Vitalis shall not be liable for any Product that has been repacked, treated, conditioned and/or manipulated in any way by the Buyer or by Vitalis or a third party on the Buyer's request.
11. The Buyer acknowledges that Products delivered by Vitalis are not fit for human or animal consumption.

## Article 12 - Liability and Indemnity

1. Vitalis shall in no event be liable to Buyer (or any third party affected under the Agreement) for any special, punitive, incidental or consequential damage, including but not limited to loss of profits, yield, goodwill, revenue, production, contracts or opportunity.
2. In any event and to the greatest extent permitted by law, Vitalis's liability shall be limited to the amount (excluding VAT) invoiced in respect of the subject Products, and shall, at Vitalis's election, be limited to either replacement of the Products for no further fee or an amount equal to the price of the Products.
3. Any potential claim for liability or compensation shall expire in the event that no such claim has been brought forth within 12 months of the delivery of the products.
4. The Buyer hereby explicitly understands and agrees to this limitation of Vitalis's liability.
5. The Buyer shall indemnify, hold harmless and defend Vitalis and its affiliates (current and former), directors and employees against any and all third-party claims, actions, proceedings, and suits and related liabilities, damages, settlements, penalties, fines, costs and expenses (including, without limitation reasonable attorney fees) incurred by Vitalis arising out of or relating to Buyer's violation or breach of any term of the Agreement, use or misuse of the Products, and/or the fault, negligence or wilful intent of Buyer.

## Article 13 - Intellectual Property Rights

1. The Buyer agrees and acknowledges that, subject to the license provided under Article 11, paragraph 1, the exclusive right, title to and interest in all Intellectual Property Rights on the Products, Plant Material or any mutations, varieties or (biological) material obtained therefrom or included therein, including but not limited to genetics, traits, technology and/or all its (phenotypical) characteristics, as well as in the Vitalis trademarks shall at all times be and remain absolutely vested in Vitalis or in any of its affiliates.
2. If and to the extent that the Buyer under the applicable law could establish any Intellectual Property Right in the Products, Plant Material or any mutations, varieties or (biological) material obtained therefrom or included therein, including but not limited to genetics, traits, technology and/or all its (phenotypical) characteristics, the Buyer agrees that the Buyer will not do so but rather transfer without undue delay such Intellectual Property Rights to Vitalis, which accepts such transfer. The Buyer hereby authorizes Vitalis to register and otherwise effect or complete such transfer under the applicable law and shall at Vitalis's request assist in and carry out all actions deemed necessary by Vitalis to register, effect and complete such transfer.
3. The Buyer agrees neither to use nor register any trademark, trade name, company name, domain name, symbols or variety designation which is identical or confusingly similar to the trademarks, trade name, company name, domain name, or symbols or variety designation owned by Vitalis or any of its affiliate.
4. The Buyer may not use Vitalis's trademarks, trade name and/or trade dress for any purpose unless otherwise approved in writing by Vitalis.
5. In the event that the Buyer finds, observes or discovers a derived variety, including but not limited to any mutation in the production and cultivation of the Plant Material, the Buyer shall immediately notify Vitalis thereof by registered letter.
6. At the written request of Vitalis, the Buyer shall immediately provide Vitalis with sufficient material from the derived variety (e.g. mutant), for testing purposes.
7. In the case of a derived variety (e.g. mutant) Buyer shall require the prior authorization of Vitalis for the following acts in respect of constituents of the mutation or harvested material of the mutation: (a) production or reproduction, (b) conditioning for the purpose of propagation, (c) offering for sale, (d) selling or other marketing, (e) importing to and/or exporting; (f) stocking for any of the purposes mentioned above.
8. New mutations derived from the mutations shall also be regarded as a derived variety of the (protected) varieties of Vitalis and paragraphs 5 to 7 of this Article 13 shall apply accordingly.

9. The Buyer agrees to allow and fully cooperate with any inspection by Vitalis for the purpose to verify any possible infringement of Vitalis's rights or violation of the Agreement. The Buyer shall allow Vitalis or a person or company appointed by Vitalis to have direct access to Buyer's premises including, but not limited to, its greenhouses, administrative and farming activities. The term 'activities' shall be understood to include activities carried out by third parties on behalf of the Buyer.

10. The Buyer shall fully cooperate with Vitalis to defend its rights against infringement.

## Article 14 Default, Suspension and Termination of the Agreement

1. In the event that a Party fails to perform any of its obligations under the Agreement and such default continues for a period of thirty (30) days after written notice to the defaulting Party specifying the default, the other Party shall be authorized to suspend any further performance of the Agreement or to terminate it out of court by a registered letter, without prejudice to any of its other rights under the Agreement, including but not limited to the right to claim from the Buyer compensation of all its damage and costs resulting from such default.
2. If the Buyer is liquidated, files for bankruptcy or is granted suspension of payments, makes a general assignment of its assets for the benefit of its creditors, becomes subject to receivership or is dissolved, all its payment obligations shall be immediately due and Vitalis shall be authorized to suspend any further performance of the Agreement or to terminate it, without prejudice to its right to claim compensation from the Buyer of all its damage and costs resulting therefrom.
3. If any of the events mentioned in article 14.2 occurs, the Buyer shall immediately inform Vitalis. The Buyer hereby grants Vitalis the right and/or has the obligation to execute, file or record such documents and to take any such actions, necessary to effectuate, enforce or implement the Agreement, and in particular to guarantee by preference the payment obligations.

## Article 15 - Final Provisions

1. These General Terms and Conditions of Sale replace earlier versions thereof and apply to all Agreements concluded after the date on which they have been published on Vitalis's website under [www.biovitalis.eu](http://www.biovitalis.eu).
2. The Buyer shall not assign its rights and obligations under the Agreement to third parties without Vitalis's prior written consent.
3. The Buyer agrees that Vitalis shall be permitted at all times to assign its rights and obligations under the Agreement to third parties.
4. The Agreement may only be amended by means of a written document signed by both Parties.

## Article 16 - Applicable Law

Each Party irrevocably agrees that the Agreement, and any dispute or claim howsoever arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with the law of The Netherlands. The applicability of the Vienna Sales Convention is expressly excluded.

## Article 17 - Resolution of Disputes

1. In case of a dispute howsoever arising out of or in connection with the General Terms and Conditions of Sale and/or the Agreement, the Parties shall, if the dispute cannot be resolved amicably, first refer the dispute to proceedings under the ICC Mediation Rules. If the dispute has not been settled pursuant to the said Rules within 45 days following the filing of a Request for Mediation or within such other period as the parties may agree in writing, such dispute shall thereafter be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules of Arbitration.
2. The place of mediation and of arbitration shall be Amsterdam, The Netherlands.
3. Vitalis shall however be entitled to summon the Buyer at any time to appear before the competent court in the district in which the Buyer has its registered office.
4. In the event that court proceedings arise that are ancillary to ICC Mediation and/or ICC Arbitration the courts of The Netherlands shall have exclusive jurisdiction to settle any dispute or claim or issue arising out of or in connection with the Agreement or connected legal proceedings.

## Schedule 1 - Resistance

### 1. - Terminology and definitions

- a. 'Immunity' means not subject to attack or infection by a specified pest or pathogen.
- b. '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 of pathogen pressure.

Two levels of resistance are defined:

- I. High 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.
- II. Intermediate resistance (IR): plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to highly resistant varieties. Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.
- c. 'Susceptibility' is the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

### 2. - Information per variety

Resistances in varieties of our crops will be coded (see coding list at [www.biovitalis.eu](http://www.biovitalis.eu)), unless indicated otherwise. In case a variety is resistant to more than one pathogen, the individual resistance codes will be separated by the symbol ' '.

If in a resistance code of a certain variety reference is made to certain strains for which the resistance is claimed this means that no resistance is claimed to other strains of the same pathogen.

If, in a resistance code, no reference is made to strains of the pathogen for which the resistance is claimed, resistance is claimed only to certain not further specified isolates and we hereby disclaim any (implied) warranty that the variety will not be infected by the said pathogen.

| Scientific name  | English name                         | Code       | Scientific name  | English name                       | Code       |
|--|--------------------------------------|------------|--|------------------------------------|------------|
| <b>Lettuce</b>   |                                      |            |  |                                    |            |
| Viruses  |                                      |            | Insects  |                                    |            |
| Lettuce mosaic virus   | Lettuce mosaic                       | LMV        | Macrosiphum euphorbiae                                   | Potato aphid                       | Me         |
| Fungi  |                                      |            | Insects  |                                    |            |
| Bremia lactucae  | Downy mildew                         | Bl         | Nasonovia ribisnigri                                     | Lettuce leaf aphid                 | Nr         |
| Sphingomonas suberifaciens (ex Rhizomonas suberifaciens)   | Corky root                           | Ss         | Pemphigus bursarius                                      | Lettuce root aphid                 | Pb         |
| <b>Spinach</b>   |                                      |            |  |                                    |            |
| Fungi  |                                      |            |  |                                    |            |
| Perenospora effusa f.sp. spinaciae   | Downy mildew                         | Pe         |  |                                    |            |
| <b>Pepper</b>  |                                      |            |  |                                    |            |
| Viruses  |                                      |            | Bacteria   |                                    |            |
| Chili veinal mosaic virus  | Chili veinal mosaic                  | ChiVMV     | Ralstonia solanacearum                                   | Bacterial wilt                     | Rs         |
| Cucumber mosaic virus  | Cucumber mosaic                      | CMV        | Fungi  |                                    |            |
| Pepper mottle virus  | Pepper mottle                        | PepMoV     | Fusarium oxysporum f.sp. capsici                         | Fusarium wilt                      | Foc        |
| Pepper yellow mosaic virus   | Pepper yellow mosaic                 | PepYMV     | Phytophthora capsici                                     | Buckeye fruit and root rot         | Pc         |
| Potato Y virus   | Potato Y                             | PVY        | Leveillula taurica (anamorph: Oidiopsis sicula)          | Leveillula taurica                 | Lt         |
| Tobacco etch virus   | Tobacco etch                         | TEV        | Nematode   |                                    |            |
| Tomato spotted wilt virus  | Tomato spotted wilt                  | TSWV       | Meloidogyne incognita                                    | Root-knot                          | Mi         |
| Tobamovirus group  |                                      |            | Meloidogyne arenaria                                     | Root-knot                          | Ma         |
| Pepper mild mottle virus, Tobacco mild green mosaic virus, Tobacco mosaic virus, Tomato mosaic virus |                                      | Tm:0-3     | Meloidogyne javanica                                     | Root-knot                          | Mj         |
| Bacteria   |                                      |            |  |                                    |            |
| Xanthomonas campestris pv. vesicatoria   | Bacterial spot                       | Xcv        |  |                                    |            |
| <b>Tomato</b>  |                                      |            |  |                                    |            |
| Viruses  |                                      |            | Fungi  |                                    |            |
| Cucumber mosaic virus  | Cucumber mosaic                      | CMV        | Fusarium oxysporum f.sp. lycopersici                     | Fusarium wilt                      | Fol        |
| Pepino mosaic virus  | Pepino mosaic virus                  | PepMV      | Fusarium oxysporum f.sp. radicum-lycopersici             | Fusarium crown and root rot        | For        |
| Tobacco mosaic virus   | Tobacco mosaic                       | TMV        | Leveillula taurica (anamorph: Oidiopsis sicula)          | Powdery mildew                     | Lt         |
| Tomato spotted wilt virus  | Tomato spotted wilt                  | TSWV       | Oidium neolycopersici (ex Oidium lycopersicum)           | Powdery mildew                     | On (ex Ol) |
| Tomato mosaic virus  | Tomato mosaic                        | ToMV       | Verticillium albo-atrum                                  | Verticillium wilt                  | Va         |
| Tomato yellow leaf curl virus  | Tomato yellow leaf curl              | TYLCV      | Verticillium dahliae                                     | Verticillium wilt                  | Vd         |
| Bacteria   |                                      |            | Nematode   |                                    |            |
| Clavibacter michiganensis subsp. michiganensis   | Bacterial cancer                     | Cmm        | Meloidogyne arenaria                                     | Root-knot                          | Ma         |
| Xanthomonas vesicatoria (Xanthomonas campestris pv. vesicatoria)                                     | Bacterial spot                       | Xcv        | Meloidogyne incognita                                    | Root-knot                          | Mi         |
| Ralstonia solanacearum   | Bacterial wilt                       | Rs         | Meloidogyne javanica                                     | Root-knot                          | Mj         |
| Fungi  |                                      |            | Abiotic Stress   |                                    |            |
| Fulvia fulva (ex Cladosporium fulvum)  | Leaf mold                            | Ff (ex Cf) |  | Silvering                          | Si         |
| <b>Melon</b>   |                                      |            |  |                                    |            |
| Viruses  |                                      |            | Fungi  |                                    |            |
| Melon necrotic spot virus  | Melon necrotic spot                  | MNSV       | Podosphaeria xanthii (ex Sphaerotheca fuliginea)         | Powdery mildew                     | Px (ex Sf) |
| Fusarium oxysporum f.sp. melonis   | Fusarium wilt                        | Fom        | Golovinomyces cichoracearum (ex. Erysiphe cichoracearum) | Powdery mildew                     | Gc         |
| <b>Cucumber</b>  |                                      |            |  |                                    |            |
| Viruses  |                                      |            | Bacterial  |                                    |            |
| Beet pseudo yellowing virus  | Beet pseudo yellowing virus          | BPYV       | Pseudomonas syringae pv. lachrymans                      | Angular leaf spot                  | Pls        |
| Cucumber green mottle mosaic virus   | Cucumber green mottle mosaic         | CGMMV      | Fungi  |                                    |            |
| Cucumber mosaic virus  | Cucumber mosaic                      | CMV        | Colletotrichum orbiculare                                | Anthraxnose                        | Co         |
| Cucumber vein yellowing virus  | Cucumber vein yellowing              | CVYV       | Corynespora cassicola                                    | Corynespora blight and target spot | Cca        |
| Cucurbit yellow stunting disorder virus  | Cucumber yellowing stunting disorder | CYSDV      | Fusarium oxysporum f.sp. cucumerinum                     | Fusarium wilt                      | Foc        |
| Papaya ringspot virus  | Papaya ringspot                      | PRSV       | Fusarium oxysporum f.sp. radicum-cucumerinum             | Fusarium crown and root rot        | For        |
| Watermelon mosaic virus  | Watermelon mosaic                    | WMV        | Podosphaeria xanthii (ex Sphaerotheca fuliginea)         | Powdery mildew                     | Px (ex Sf) |
| Zucchini yellow mosaic virus   | Zucchini yellows                     | ZYMV       | Pseudoperonospora cubensis                               | Downy mildew                       | Pcu        |
| <b>Squash / Courgette</b>  |                                      |            |  |                                    |            |
| Viruses  |                                      |            | Fungi  |                                    |            |
| Cucumber green mottle mosaic virus   | Cucumber green mottle mosaic         | CGMMV      | Podosphaeria xanthii (ex Sphaerotheca fuliginea)         | Powdery mildew                     | Px (ex Sf) |
| Papaya ringspot virus  | Papaya ringspot                      | PRSV       | Fusarium oxysporum f.sp. cucumerinum                     | Fusarium wilt                      | Foc        |
| Squash mosaic virus  | Squash mosaic                        | SqMV       | Fusarium oxysporum f.sp. lagenariae                      | Fusarium wilt                      | Fol        |
| Zucchini yellow mosaic virus   | Zucchini yellows                     | ZYMV       | Fusarium oxysporum f.sp. melonis                         | Fusarium wilt                      | Fom        |
| Watermelon mosaic virus  | Watermelon mosaic                    | WMV        |  |                                    |            |
| Cucumber mosaic virus  | Cucumber mosaic                      | CMV        |  |                                    |            |
| <b>Pumpkin</b>   |                                      |            |  |                                    |            |
| Viruses  |                                      |            | Fungi  |                                    |            |
| Zucchini yellow mosaic virus   | Zucchini yellows                     | ZYMV       | Podosphaeria xanthii (ex Sphaerotheca fuliginea)         | Powdery mildew                     | Px (ex Sf) |
| Cucumber mosaic virus  | Cucumber mosaic                      | CMV        |  |                                    |            |
| Watermelon mosaic virus  | Watermelon mosaic                    | WMV        |  |                                    |            |
| Papaya ringspot virus  | Papaya ringspot                      | PRSV       |  |                                    |            |



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