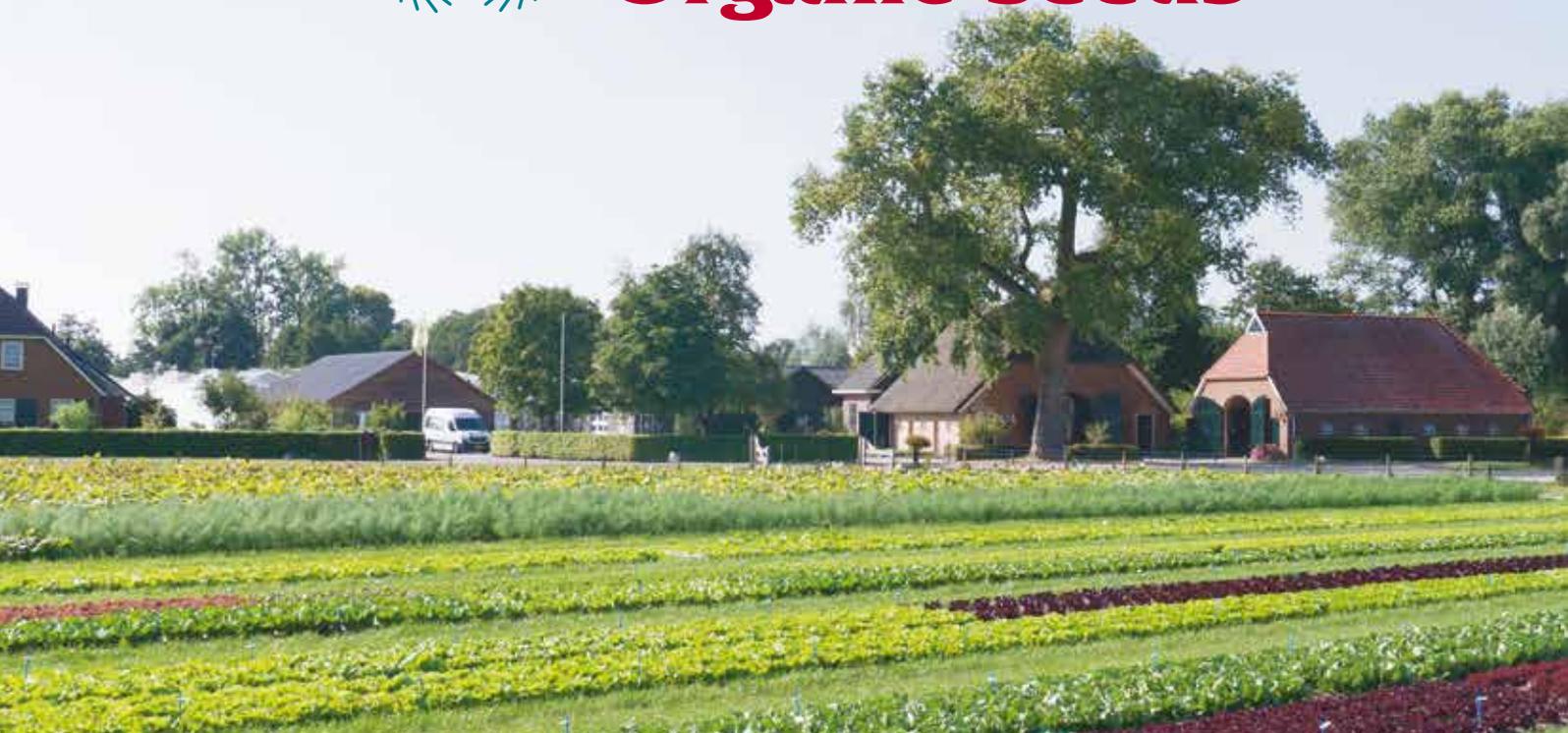


**Vitalis**  
**Organic Seeds**



2017  
**Catalogue**



**Worldwide**

# Creating an organic world



"Creating an organic world" is the mission of Vitalis. We are doing this by breeding and producing varieties which are suitable for organic growers. Strong and reliable varieties, with as much resistance as possible against diseases and pests. Varieties tested under organic growing conditions at growers, research institutes and the Vitalis trial fields. We are proud to present a wide range of varieties in many crops.

Vitalis is part of the Enza Zaden Beheer B.V. group. Enza Zaden is a leading worldwide vegetable breeding company founded in the Netherlands.

The commercialization and distribution of the organic seeds take place through the Enza Zaden worldwide network. Look for your local dealer and specific information on [www.enzazaden.com](http://www.enzazaden.com). Please be aware of the fact that not all varieties in this catalogue will be suitable in your country. The availability of varieties differs per country.



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 017981.



Cucumber	Heated	Non-heated	Spring	Summer	Autumn	Winter	Fruitlength (cm)	Resistances		Comments
								Hr	Ir	
<b>Cucumber Long European Type</b>										
<b>Altanero F1 New</b>		✓	✓	✓	✓			Ccu	CMV/CVYV/CYSDV/Px	Good performance in hot conditions.
<b>Amaluna F1</b>	✓	✓		✓	✓		30	Ccu	CVYV/Px	Early and fast.
<b>Azabache F1</b>		✓				✓	33	Cca/Ccu	CVYV	Standard for winter in South Europe.
<b>Borja F1</b>		✓	✓	✓	✓	✓	31	Cca/Ccu	CVYV	Versatile strong grower, export.
<b>Bowing F1</b>		✓	✓	✓	✓		32	Ccu	CVYV/Px	Medium, compact, good in the heat.
<b>Defense F1</b>	✓	✓	✓	✓	✓		33	Cca/Ccu	CMV/CVYV/Px	Vigorous, Mid and South Europe.
<b>Dreamliner F1</b>		✓	✓	✓	✓		35	Cca/Ccu	CMV/CVYV/Px	Fruit quality. Mid Europe.
<b>Dee Lite F1</b>	✓	✓		✓			32	Ccu	CGMMV/CMV/CVYV/Px	CGMMV resistant variety for summer.
<b>Dee Zire F1</b>	✓		✓		✓		33	Ccu	CGMMV/CMV/Px	CGMMV resistant variety spring and autumn.
<b>Galaxy F1</b>	✓	✓		✓	✓		30	Cca/Ccu	Px	Vigorous plant.
<b>Kalunga F1</b>		✓	✓	✓	✓		31	Cca/Ccu	Px	Flexible, mid-early, easy to grow.
<b>Komet F1</b>	✓	✓	✓	✓			35	Cca/Ccu	CMV/CVYV/Px	Compact open plant. Dark and shiny fruits.
<b>Lockheed F1</b>	✓		✓	✓	✓		31	Ccu	CMV/CVYV/Px	Flexible variety.
<b>Lucania F1 New</b>	✓	✓	✓	✓			30	Cca/Ccu	Px	Makes side shoots easily. Endurance.
<b>Pampero F1 New</b>		✓				✓	29	Cca/Ccu	CMV/CVYV/CYSDV/Px	South Europe. Dark green high quality fruits.
<b>Poniente F1 New</b>		✓				✓	33	Ccu	CMV/CVYV/CYSDV/Px	Power and endurance for winter South Europe.
<b>Styx F1</b>		✓	✓	✓	✓		33	Cca/Ccu	Px	Easy to grow, cold greenhouse, N-Europe.
<b>Toploader F1</b>	✓			✓	✓		31	Cca/Ccu	Px	For traditional and high wire systems.
<b>Torreon F1</b>	✓		✓	✓	✓		33	Cca/Ccu	Px	Medium strong vigour, early.
<b>Tyria F1</b>		✓	✓	✓	✓		34	Cca/Ccu	Px	Strong vigour, strong roots.
<b>Cucumber Mini</b>										
<b>Fadia F1</b>		✓	✓	✓			16	Ccu	CMV/CVYV/Px	Well balanced plant, multi fruiting.
<b>Katrina F1</b>	✓	✓	✓	✓			17	Ccu	CMV/CVYV/Px	Standard. Strong vigour, multi fruiting.
<b>Passandra F1</b>	✓	✓	✓	✓	✓	✓	15	Ccu	CMV/Px	High yield, single fruiting.
<b>Picolino F1</b>	✓	✓	✓	✓	✓		14	Cca/Ccu	CMV/CVYV/Px	Adaptable, productive, multi fruiting.
<b>Socrates F1</b>		✓			✓	✓	15	Ccu	Px	Strong vigour, early, single fruiting.
<b>Cucumber Slicer</b>										
<b>Akito F1</b>		✓	✓	✓	✓		21	Ccu	CMV/Px	Strong roots, also open field.
<b>Alcazar F1</b>		✓				✓	20	Ccu	CVYV/Px	Strong growing winter variety.
<b>Corinto F1</b>		✓	✓		✓		22		CMV/CVYV/Px	Early, productive and very uniform.
<b>Dinero F1</b>		✓	✓	✓			23	Ccu	CMV/Px	All round variety. Regular open plant.
<b>Incas F1</b>		✓	✓		✓	✓	19	Ccu	CMV/CVYV/Px	High yielding and widely adapted.
<b>Macario F1</b>		✓				✓	18	Ccu	CMV/CVYV/Px	Flexible winter type.
<b>Paraiso F1</b>		✓	✓		✓	✓	21		CMV/CVYV/CYSDV/Px	Excellent fruit quality, vigorous, late.
<b>Pontia F1</b>		✓	✓		✓	✓	23	Cca/Ccu	CMV/CVYV	Nice dark green fruits, well known.
<b>Cucumber Pickling</b>										
<b>Excelsior F1</b>		✓	✓	✓	✓		11	Cca/Ccu	CMV/CVYV/Px	Vigorous, multi fruiting, easy setting.
<b>Cucumber Rootstock</b>										
<b>Flexifort F1</b>	✓	✓	✓	✓	✓	✓		Fom:0-2,1.2/ Fon:0,1/Foc	Forc	

HR: High Resistance | IR: Intermediate Resistance. For an explanation of the resistance codes displayed please see page 2.

Tomato	Mean fruit Weight (g)	Heated	Non-heated	Tunnel	Open field	Truss	Resistances			Comments
							Hr	Ir	Tr	
<b>Beef</b>										
<b>Alindi 811 F1</b>	175	✓	✓				ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1	TYLCV/Ma/Mi/Mj		Good balance between growth and setting.
<b>Afamia F1</b>	180	✓	✓				ToMV:0-2/Va:0/Vd:0/Fol:0,1/For	TSWV/Ma/Mi/Mj		For Middle East, winter and spring.
<b>Amaral F1</b>	200	✓	✓	✓			ToMV:0-2/Ff:A-E/Lt/Va:0/Vd:0/Fol:0,1/For	TSWV/Ma/Mi/Mj		Flat round, high quality fruits.
<b>Fiorentino F1</b>	200	✓	✓				ToMV:0-2/Va:0/Vd:0/Fol:0-2	TYLCV/Ma/Mi/Mj		Spring crop, excellent quality.
<b>Arbason F1</b>	210	✓	✓	✓			ToMV:0-2/Va:0/Vd:0/Fol:0,1			High stress tolerance, reliable.
<b>Forenza F1</b>	220	✓	✓				ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1	On/Ma/Mi/Mj		Vigorous, balanced and uniform.
<b>Rally F1</b>	230	✓	✓	✓			ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1	TSWV/Ma/Mi/Mj		Very early, flat-round fruits.
<b>Velocity F1</b>	240	✓	✓				ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1	TSWV/Ma/Mi/Mj		Top quality and reliability.
<b>Lezaforta F1</b>	280	✓	✓	✓			ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0-2	TSWV/Ma/Mi/Mj		Strong compact plant. Excellent fruit quality.
<b>Pink Beef</b>										
<b>Dimerosa F1 New</b>	230	✓	✓				ToMV:0-2/ToANV/Ff:A-E/Ss/Aal/Va:0/Vd:0/Fol:0,1	TSWV/TYLCV		Pink beef. Early and good production.
<b>Determinated</b>										
<b>Skyway 687 F1</b>	230			✓			ToANV/Va:0/Vd:0/Fol:0-2	TSWV/TYLCV/Ma/Mi/Mj		Good resistance. Vigorous. Fine ripe.
<b>Normal, round</b>										
<b>Avalantino F1</b>	75	✓	✓			✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For	On	Si	Excellent taste. Nice truss.
<b>Douglas F1</b>	100	✓	✓	✓			ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1			Uniform, firm, well tasting fruits.
<b>Pitenza F1</b>	110	✓	✓			✓	ToMV:0-2/Va:0/Vd:0/Fol:0,1			Famous cluster tomato, very good shelflife.
<b>Sparta F1</b>	110	✓	✓				ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1	Ma/Mi/Mj		All round variety, good taste.
<b>Bocati F1</b>	110	✓	✓			✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For	On	Si	Easy setting, useful resistance package.
<b>E15M.40770 F1 New</b>	110	✓	✓			✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For	TSWV/On	Si	Open plant easy to grow. Nice cluster for flow-pack.
<b>Claudino F1 New</b>	135	✓				✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For	On	Si	Very high yield. Good taste.
<b>Graziano F1</b>	110	✓				✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For	TSWV/On	Si	Uniform ripening. Excellent truss quality.
<b>Cindelo F1</b>	125		✓	✓			ToMV:0-2/Va:0/Vd:0/Fol:0,1			Early setting, good shelflife.
<b>Fado F1</b>	125		✓	✓			ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For	TSWV/Ma/Mi/Mj		Widely adapted, good shelflife.
<b>Dirk F1</b>	130	✓	✓			✓	ToMV:0-2/Va:0/Vd:0/Fol:0,1/For	On	Si	Vigorous growth, good truss tomato.
<b>Praetorius F1</b>	140		✓	✓			ToMV:0-2/Va:0/Vd:0/Fol:0,1	TYLCV/Ma/Mi/Mj		Strong plant, very nice truss.
<b>Maxeza F1 New</b>	160	✓				✓	ToMV:0-2/Ff:A-E/Fol:0,1/For	On	Si	High yield, good colour and firm fruits. Vigorous and open plant.
<b>Cocktail</b>										
<b>Annamary F1</b>	40	✓	✓			✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1	On	Si	Nice trussform, high yield.
<b>Campari F1</b>	50	✓				✓	ToMV:0-2/Va:0/Vd:0/Fol:0,1/For	Ma/Mi/Mj	Si	Worldwide the most famous cocktail.
<b>Baylee F1</b>	50	✓				✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For	On	Si	Easy to handle, very productive.
<b>Devotion F1</b>	55	✓	✓			✓	ToMV:0-2/Va:0/Vd:0/Fol:0,1/For	Ma/Mi/Mj	Si	Strong against russetting and goldspeck.
<b>Temptation F1</b>	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>										
<b>Perlita F1</b>	19	✓	✓	✓			ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1	On/Ma/Mi/Mj	Si	Very sweet and many resistances.
<b>Tomagino F1</b>	20	✓	✓			✓	ToMV:0-2/Va:0/Vd:0/Fol:0/For	On		Nice taste and long shelf life.
<b>Sakura F1</b>	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>										
<b>Santasian F1</b>	12	✓	✓	✓			ToMV:0-2/Fol:0			Best real mini plum, robust product.
<b>Garincha F1 New</b>	12	✓				✓	ToMV:0-2/Fol:0,1	TSWV/Ma/Mi/Mj		Santa type. Open plant habit. For loose and truss.
<b>Matthew F1</b>	34	✓					ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1/For		Si	Orange coloured miniplum.
<b>Ardiles F1</b>	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.
<b>Loreto F1</b>	80	✓	✓			✓	ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1			Vigorous, good production.
<b>Granadero F1</b>	155		✓	✓	✓		ToMV:0-2/Lt/Va:0/Vd:0/Fol:0,1	TSWV/Ma/Mi/Mj		High productive "Saladette type".
<b>Paipai F1</b>	170		✓	✓			ToMV:0-2/Va:0/Vd:0/Fol:0,1	TSWV/Ma/Mi/Mj		Strong compact plant. Good ripening and long shelf life.
<b>San Marzano</b>										
<b>Pozzano F1</b>	135		✓	✓			ToMV:0-2/Va:0/Vd:0/Fol:0,1			Non-greenback, for spring/autumn.
<b>Rootstock</b>										
<b>Estamino F1</b>		✓	✓				ToMV:0-2/Ff:A-E/Pl/Va:0/Vd:0/Fol:0-2/For	TSWV/Ma/Mi/Mj		Powerful and generative.
<b>Fortamino F1</b>		✓	✓				ToMV:0-2/Ff:A-E/Pl/Va:0/Vd:0/Fol:0-2/For	TSWV/Ma/Mi/Mj		Generative. Performs well in stress, health and dryness.

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Pepper	Type	Heated	Non-heated	Open Field	Fruitsize (mm)	Resistances		Comments
						Hr	Ir	
<b>Blocky Red/Green</b>								
<b>Artega F1</b>		✓			70-75	Tm:0-2		Small fruit size. Fast. High yield.
<b>Ferrari F1</b>		✓	✓		75-80	Tm:0-2		Reliable. Vigorous.
<b>Bendigo F1</b>			✓	✓	75-80	Tm:0		Easy grower in North West Europe.
<b>Marletta F1</b>		✓			75-85	Tm:0-3	Ma/Mi/Mj	Fast variety. Excellent fruit quality.
<b>Spider F1</b>		✓			80-85	Tm:0-2		Also for green fruits.
<b>Maldonado F1</b>		✓			80-85	Tm:0-3		Fast. Excellent shelflife.
<b>Maduro F1</b>		✓			85-90	Tm:0-2		Large fruits with nice shape. Vigorous plant.
<b>Sprinter F1</b>		✓	✓		85-95	Tm:0-3		Good taste, very good in North Europe.
<b>Tamarín F1 New</b>			✓		85-90	Tm:0-3	TSWV:0	South Europe spring. High & early production. Excellent fruit shape.
<b>Triple 5 F1</b>		✓			85-90	Tm:0-3	Ma/Mi/Mj	Easy setting. Good growth. Nice blocky high quality fruits.
<b>Maranello F1</b>		✓			85-95	Tm:0-2		Large fruits. Fast. High yield.
<b>Imperio F1</b>			✓		90+	Tm:0-3	TSWV:0	New, flexible, big fruits.
<b>Blocky Orange</b>								
<b>Milena F1</b>			✓		85	PVY:0-1/Tm:0-3	TSWV:0/TEV	High total yield.
<b>Orbit F1 New</b>		✓			85+	Tm:0-3		High yield. Big fruits. Long plant.
<b>Blocky Yellow</b>								
<b>Fiesta F1</b>		✓	✓		75-80	Tm:0-2		Regular setting, quality fruits.
<b>Kaite F1</b>		✓			80-85	Tm:0-3		Fast. High yield excellent shelflife.
<b>Brocanto F1 New</b>			✓		85+	Tm:0-3	TSWV:0	South Europe. Nice block & good shelflife. Early production.
<b>Deniro F1</b>			✓		80-100	Tm:0-3	TSWV:0	Very productive. Good recovering. Firm fruits.
<b>Bentley F1</b>		✓			90+	Tm:0-3		Generative, open and short plant.
<b>Abay F1</b>				✓	95	Xcv:1-5/Tm:0		High quality yellow field pepper.
<b>Blocky White</b>								
<b>Vedrana F1</b>			✓	✓	85-95	Tm:0-2		White to light green variety.
<b>Sweet Conical mini &amp; normal</b>								
<b>Rojito F1</b>		✓	✓	✓	25x75	Tm:0		Mini, Red, excellent setting.
<b>E 499531 F1</b>		✓	✓	✓	25x60	Tm:0		Mini, Orange, very tasty.
<b>E 499526 F1</b>		✓	✓	✓	25x60	Tm:0		Mini, Yellow, thick fruit wall.
<b>Cooper F1</b>		✓	✓		45x190	Tm:0-3		Red. Generative. Fast. Strong on blossom end rot.
<b>Oranos F1</b>		✓	✓		35x125	Tm:0		Orange, good tasting pepper.
<b>Xanthi F1</b>		✓	✓		40x145	Tm:0		Yellow.
<b>Various types</b>								
<b>Diomede F1</b>			✓		90x150	PVY:0/Tm:0	TSWV:0	Lamuyo, very good quality.
<b>Enea F1 New</b>			✓	✓	60x200	Tm:0	TSWV:0	Corno di Toro type red. Excellent shape & shelf-life.
<b>Teseo F1</b>			✓	✓	70x240	PVY:0/Tm:0	TSWV:0	Corno di Toro type red, large.
<b>Laerte F1</b>			✓		60x180	Tm:0	TSWV:0	Corno di Toro red winter type.
<b>Silyen F1</b>			✓		40x200	Tm:0	TSWV:0/Ma/Mi/Mj	Corno di Toro yellow.
<b>Belcanto F1</b>			✓	✓	50x150	Tm:0-3		Capia type, flexible plant.
<b>Rootstock</b>								
<b>Scarface F1</b>		✓	✓			Tm:0	Ma/Mi/Mj	Gives plants a lot of vigour and high yield.

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Lettuce		Colour ● = green ● = red ■ = Greenhouse ■ = Open field	North EU				South EU				Resistances				
			Spring	Summer	Autumn	Winter	Spring	Summer	Autumn	Winter	Hr	Ir	Comments		
<b>Butterhead Lettuce</b>															
<b>Analena</b>	1		✓		✓		✓		✓	✓	Bl:16-25,27-32/Nr:0	LMV:1	Large frame, good field keepability, nice base.		
<b>Donela</b>	1		✓		✓		✓		✓	Bl:16-32/Nr:0		Mid sized. Flat base. Good field standing.			
<b>Analora</b>	1		✓	✓	✓			✓		Bl:16-32/Nr:0	LMV:1	Reliable and flexible.			
<b>Anandra</b>	1		✓	✓	✓		✓		✓	Bl:16-32/Nr:0	LMV:1	Large. Slow filling, so long harvest window.			
<b>Sebastiano</b>	2		✓	✓	✓				✓	Bl:16-27,29,32		Red Butterhead. Savoyed.			
<b>E01D.30254 New</b>	2		✓	✓	✓					Bl:16-32/Nr:0	LMV:1	Red butterhead smooth leaves.			
<b>Brighton</b>	1		✓		✓	✓				Bl:16-32		Large. Very nice shape, nice base, strong on tipburn.			
<b>Espelo (E01B.30276) New</b>	1								✓	Bl:16-32		Good volume and nice shape.			
<b>Fakto</b>	1				✓	✓			✓	Bl:16-32		Blond, voluminous and healthy heads.			
<b>Fairly</b>	1		✓		✓		✓		✓	Bl:16-32/Nr:0		Large size and good weight. Strong on tipping.			
<b>Iceberg Lettuce</b>															
<b>Acula</b>	1									✓	Bl:16-27,29,32/Nr:0	LMV:1	Real winter variety, good at low light levels.		
<b>Alcala</b>	1									✓	Bl:16-27,29,32		Early autumn.		
<b>Aureola New</b>	1						✓				Bl:16-27,29,32/Nr:0		Good volume and field keepability.		
<b>Botiola New</b>	1									✓	Bl:16-27,29,32		Good volume and weight. Nice cover.		
<b>Clarist</b>	1			✓	✓				✓	✓	Bl:16-32/Nr:0/Pb		Compact and fast. Nice shape.		
<b>Eduardo New</b>	1			✓	✓						Bl:16-32/Nr:0		Compact and flexible.		
<b>Etude</b>	1		✓		✓						Bl:16-27,29,32		Early, medium sized with a round head, upright.		
<b>Juanola</b>	1									✓	Bl:16-27,29,32		Nice dark green. Reliable. Good field standing ability.		
<b>Fernandola</b>	1									✓	Bl:16-27,29,32		Medium to large size winter variety.		
<b>Elmundo</b>	1			✓							Bl:16-32/Nr:0		Compact, flat ribs and controlled shape.		
<b>Gemela New</b>	1						✓				Bl:16-32/Nr:0		Good yield. Uniform.		
<b>Oriola New</b>	1						✓				Bl:16-27,29,32/Nr:0		Nice cover.		
<b>Pikua</b>	1						✓				Bl:16-27,29,32/Nr:0		Good volume, field keepability, strong on tipburn.		
<b>Severo (E01E.10155) New</b>	1		✓		✓						Bl:16-32/Nr:0		Large size fast variety. Slow bolting.		
<b>Tesela</b>	1									✓	✓	Bl:16-27,29,32	LMV:1	Large framed, nice clean bottom, easy to harvest.	
<b>Vyталist</b>	1			✓	✓				✓	✓	Bl:16-32/Nr:0/Pb		Medium to large size. Long harvest window.		
<b>Batavia Lettuce Open</b>															
<b>Bovary</b>	1						✓		✓		Bl:16-32/Nr:0	LMV:1/Fol:1	Voluminous, vigorous and upright. Good in cold conditions.		
<b>Olana</b>	1		✓	✓	✓		✓	✓	✓		Bl:16-32/Nr:0	LMV:1	Flexible. Good volume and uniformity.		
<b>Ozeka (E01F.30352) New</b>	1						✓		✓		Bl:16-32/Nr:0	LMV:1	Good volume and base. Small cutting surface.		
<b>Flexila (E01F.30350) New</b>	1			✓							Bl:16-32/Nr:0	LMV:1/Fol:1	Upright. Easy to cut. Fusarium tolerant.		
<b>Maritima</b>	1		✓	✓	✓		✓	✓	✓		Bl:16-28,30-32/Nr:0	LMV:1	Good volume, fast filling, nice green colour.		
<b>Melina</b>	1		✓	✓	✓			✓	✓		Bl:16-32/Nr:0	LMV:1	Very nice shape and beautiful green colour.		
<b>Serrana New</b>	1									✓	Bl:16-32/Nr:0	LMV:1	Dark green. Good base and volume.		
<b>Kamalia</b>	2		✓	✓	✓		✓	✓	✓		Bl:16,21,23,32		Nice red colour. Good volume.		
<b>Ginko</b>	1									✓	Bl:16-32		Grows well in old conditions. Strong against tipburn.		
<b>Lonega</b>	1									✓	Bl:16-32		Compact, well balanced and healthy base.		
<b>Ferega</b>	1									✓	Bl:16-32		Nice color and strong base. Good growth in cold.		
<b>Zoraga (E01A.30410) New</b>	1									✓	Bl:16-32		Well balanced. Reliable. Uniform.		
<b>Batavia Lettuce Heading</b>															
<b>Grazer Krauthauptel 2</b>	1		✓	✓	✓								Heritage from Austria, robust variety.		
<b>Marcord</b>	1		✓	✓	✓						Bl:16,21,23,32		Classic heading type, strong tolerance to Bremia.		
<b>Elanda</b>	1		✓	✓	✓		✓		✓		Bl:16-27,29,32	LMV:1	Classic heading type, strong on bolting and tipburn.		
<b>Lioba</b>	2		✓	✓	✓		✓	✓	✓		Bl:16-27,29,32	LMV:1	Dark red and large, upright growth, slow bolting.		
<b>Maravilla de Verano Capora</b>	2		✓	✓			✓	✓	✓				Classic type, long shelf life, good taste.		

HR: High Resistance | IR: Intermediate Resistance. For an explanation of the resistance codes displayed please see page 2.

Lettuce	Colour ① = green ② = red	① = Greenhouse ② = Open field	North EU				South EU				Resistances			
			Spring	Summer	Autumn	Winter	Spring	Summer	Autumn	Winter	Hr	Ir	Comments	
<b>Romaine Lettuce</b>														
<b>Jeluna</b>	①		✓	✓	✓		✓	✓	✓			Bl:16-32/Nr:0		Large cos. Strong on internal tipburn.
<b>Osiride</b>	①						✓	✓	✓			Bl:16-28,30-32/Fol:1	LMV:1	Large mid green cos. Blistered leaves.
<b>Totana</b>	①		✓	✓	✓							Bl:16-32/Nr:0	LMV:1	Large cos, strong on internal tipburn.
<b>Romaine Lettuce Mini</b>														
<b>Xalbadora (E01G.10273) New</b>	①		✓	✓	✓							Bl:16-32/Nr:0	LMV:1	Xenalora and Khan size.
<b>Xamena</b>	①		✓	✓	✓							Bl:16-32/Nr:0	LMV:1	Small mini cos. Strong on Bremia.
<b>Xenalora</b>	①		✓	✓	✓		✓		✓			Bl:16-32/Nr:0	LMV:1	Strong on internal tipburn.
<b>Khan</b>	①		✓	✓	✓		✓		✓		✓	Bl:16-27,29,32/Nr:0	LMV:1	Blistered leaves.
<b>Xaroma</b>	①		✓	✓	✓		✓		✓			Bl:16-27,29,32/Nr:0	LMV:1	Mini. Nice shape, well filled and closed head.
<b>Xavira</b>	①										✓	Bl:16-27,29,31,32/Nr:0	LMV:1	Mini for winter production.
<b>Ovired</b>	②		✓	✓	✓		✓	✓	✓			Bl:16-21,23-26,28-32		Brown red with white veins.
<b>Moonred New</b>	②		✓	✓	✓		✓		✓		✓	Bl:16-26,28-32	LMV:1	Nice shiny red color.
<b>Little Gem Lettuce</b>														
<b>Albara New</b>	①						✓	✓				Bl:16-27,29,32/Fol:1/Nr:0	LMV:1	Strong against tipburn. Mid green.
<b>Alborada New</b>	①		✓	✓	✓				✓			Bl:16-32/Fol:1/Nr:0		Fast. Good filling.
<b>Alcazaba New</b>	①			✓	✓							Bl:16-32/Nr:0	LMV:1	Dark green. Good field keepability.
<b>Aldea New</b>	①										✓	Bl:16-32/Nr:0		Blond little gem. Good shape and excellent weight.
<b>Maureen</b>	①		✓	✓	✓		✓		✓		✓	Bl:16-21,23-26,28-32/Fol:1/Pb		Good taste and shape, well closed heads.
<b>Carterham</b>	①		✓	✓	✓							Bl:16-32/Nr:0/Pb	LMV:1	Dark green. Maureen type with full resistance.
<b>Oakleaf Lettuce</b>														
<b>Avenir</b>	①		✓	✓	✓		✓		✓			Bl:16-32/Nr:0	LMV:1	Nice round flat shape. Upright base.
<b>Plezir New</b>	①		✓	✓	✓		✓	✓	✓			Bl:16-32/Nr:0/	LMV:1	Nice round shape. Strong on bolting and tipburn.
<b>Mathix</b>	②		✓	✓	✓		✓		✓			Bl:16-32/Nr:0/Pb	LMV:1	Voluminous. Good vigour.
<b>E01L.30313 New</b>	②		✓	✓	✓				✓			Bl:16-32/Nr:0	LMV:1	Nice red colour. Nice closed base.
<b>Kissero</b>	①						✓		✓			Bl:16-32		Good volume. Strong on tipburn.
<b>Pissaro</b>	①										✓	Bl:16-31/Nr:0		Good growing ability in cold.
<b>Malro</b>	①		✓		✓		✓		✓			Bl:16-31/Nr:0		Nice closed healthy base. Strong on bolting.
<b>Magellan</b>	②		✓		✓	✓					✓	Bl:16-32/Nr:0		Good volume. Grows well in cold conditions.
<b>Kaftan New</b>	②		✓		✓		✓		✓			Bl:16-32/Nr:0		Triple red. Nice round shape. Easy to harvest.
<b>Krokan</b>	②		✓			✓	✓				✓	Bl:16-28,30-32/Nr:0		Compact, reliable, easy filling.
<b>Lollo Rossa &amp; Lollo Bionda</b>														
<b>Dabi</b>	①		✓	✓	✓		✓	✓	✓			Bl:16-32/Nr:0	LMV:1/Fol:1	Mid green. Fine curl. Good filling. Voluminous.
<b>Ilema</b>	①		✓	✓	✓		✓	✓	✓			Bl:16-32/Nr:0/Pb	LMV:1/Fol:1	Green lollo with good shelf life.
<b>Azirka (E01L.30190) New</b>	②		✓	✓	✓							Bl:16-32/Nr:0		Nice red lollo rossa with good volume.
<b>Loka</b>	②		✓	✓	✓		✓	✓	✓			Bl:16-32/Nr:0	Fol:1	Nice red colour. Full resistant, mid sized.
<b>Lea</b>	②		✓	✓	✓		✓	✓	✓			Bl:16-32/Nr:0	Fol:1	Triple red. Nice round shape.
<b>Babyleaf</b>														
<b>Celinet</b>	①		✓	✓	✓		✓	✓	✓	✓		Bl:16-32/Nr:0	LMV:1	Green batavia. Flexible leaves with good frill.
<b>Oaking</b>	①		✓	✓	✓		✓	✓	✓	✓		Bl:16-32/Nr:0	LMV:1	Dark green oakleaf with firm leaves.
<b>Sadawi</b>	②		✓	✓	✓		✓	✓	✓	✓		Bl:16-32/Nr:0		Red oakleaf.

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Various Crops		Resistances		Comments
		Hr	Ir	
<b>Leafy Vegetables</b>				
Curl'd Endive (Cichorium endivia)	<b>Atleta New</b>			A reliable winter variety for South Europe.
	<b>Benefine New</b>			Improved Très fine Maraîchère.
	<b>Maratoneta</b>			Voluminous Wallone type.
	<b>Matari</b>			Medium to large. For Autumn.
	<b>Myrna</b>			Reliable and good sized.
Flat leaved Endive (Cichorium endivia)	<b>Confiance</b>			Summer and autumn.
	<b>Cuartana</b>			Large heads.
	<b>Eliance</b>			Late spring, summer and autumn. Upright. Strong base.
	<b>Nuance</b>			The standard variety.
	<b>Performance</b>			For autumn. Good filling. Thin ribs.
	<b>Seance</b>			Summer. Voluminous and upright heads.
Spinach (Spinacea oleracea)	<b>Acadia F1 New</b>	Pfs:1-13,15,16		Babyleaf variety. Late spring, summer and autumn.
	<b>Escalade F1 (E03D.0848)</b>	Pfs:1-14,16		Summer. Fresh market. Upright. Good field holding.
	<b>Shelby F1 New</b>	Pfs:1-13,15,16		Fast variety for spring and autumn.
Turnip Tops (Brassica rapa)	<b>Namenia</b>			Standard variety.
Garden Cress (Lepidium sativum)	<b>Sprint</b>			Grown as seedlings, mustard family.
<b>Fruit Vegetables</b>				
Eggplant (Solanum melongena)	<b>Bartok F1</b>			Heated/non heated greenhouse. Excellent fruit quality.
	<b>Black Pearl F1</b>			Heated/non heated greenhouse, mid-early.
	<b>Black Gem F1</b>			Non heated. Excellent colour. High yield. Good shelflife.
	<b>Falcon F1</b>			Non heated greenhouse or tunnel, early.
	<b>Mirka F1</b>			Tunnel or open field, strong vigour.
	<b>Traviata F1</b>			Greenhouse and tunnel, early, very productive.
Wintersquash (Cucurbita maxima)	<b>Uchiki Kuri</b>			Orange fruits, early maturing, standard.
	<b>Orange Summer F1</b>			F1 hybrid with high yield, orange fruits.
	<b>Bright Summer F1 New</b>		ZYMV/WMV/PRSV	F1 hybrid with 3-5 fruits of 500-1.200 gram per plant.
Wintersquash (Cucurbita moschata)	<b>Early Butternut</b>			Open pollinated Butternut.
	<b>Tiana F1</b>		ZYMV	High yield, fruits 1,0 - 1,5 kg.
	<b>Havana F1</b>		Px/ZYMV	F1 hybrid. Fruits 1,0 - 1,5 kg. Good storability and high yield.
	<b>Hannah F1</b>		ZYMV	1,5 - 2,0 kg excellent quality.
	<b>Musquée de Provence</b>			Traditional French variety, large fruits.
	<b>Nelson F1</b>			Flat round. Grey fruit of 4-6 kg.
	Zucchini/Courgette (Cucurbita pepo)	<b>Yellowfin F1</b>		Px/CMV
<b>Apollonia F1 New</b>			Px/ZYMV/WMV/PRSV	South Europe flexibel in several conditions.
<b>Cassia F1</b>				Romanesco type for winter production.
<b>Dunja F1</b>			Px/ZYMV/WMV/PRSV	Dark green, multiresistant to virusses.
<b>Leila F1</b>			Px	Early, medium green.
<b>Kopana F1</b>			Px/ZYMV/WMV/PRSV	Greenhouse autumn and spring.
<b>Natura F1</b>			Px	For greenhouse, Southern Europe.
<b>Zelia F1</b>			Px/CMV/ZYMV/WMV/PRSV	Mid green variety. Multi resistant to virus also CMV.
	<b>Tirreno F1</b>	Fom:0,1,2/MNSV	Px:1,2,5	Italian Netted type, late tunnel crop.
	<b>Magnificenza F1</b>	Fom:0,1,2	Gc:1/Px:1,2,5/Ag	Italian Netted. Late tunnel and open field crop.
	<b>Artémis F1</b>	Fom:0,1,2	Px:1,2,5/Ag	Charentais type, for late tunnel and early open field.

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Various Crops		Comments
<b>Cabbage (Brassica oleracea)</b>		
Cauliflower	<b>Janvel F1</b>	Autumn variety with 90 - 100 growing days. Excellent curd.
	<b>E40W.611 F1 New</b>	Summer cauliflower with 70-85 growing days. Good selfcover.
	<b>E40W.614 F1 New</b>	Summer cauliflower with 70-80 growing days. Perform well in heat.
Kohlrabi	<b>Olivia F1</b>	For greenhouse and early open field.
	<b>Vikora F1</b>	For open field, all season.
<b>Bulb and Root Vegetables</b>		
Leek (Allium ampeloprasum)	<b>Chinook F1</b>	Fast. Strong on bolting. Late spring and summer.
	<b>Cherokee F1</b>	Autumn. Upright and healthy leaves.
	<b>Navajo F1</b>	Winter variety.
	<b>Blauwgroene Herfst* Axima</b>	Open pollinated autumn.
	<b>Blauwgroene Herfst* Tadorna</b>	Open pollinated. Late autumn and begin winter.
	<b>Blauwgroene Winter* Atlanta</b>	Winter and overwintering. Open pollinated.
Onion	<b>Cabernet F1 New</b>	Intermediate red onion. Vigorous and healthy plant.
Radish (Raphanus sativus)	<b>Celesta F1</b>	Round red. Worldwide standard for open field and glasshouse.
	<b>Pearl</b>	White round radish for open field.
Root Turnip (Brassica rapa)	<b>Blanc Globe à Collet Violet</b>	Traditional French turnip, white/violet.
Fennel (Foeniculum vulgare)	<b>Preludio F1</b>	New hybrid fennel with nice round uniform bulb.
	<b>Genesi F1</b>	Winter variety. 120-130 days. Small cutting surface.
	<b>Idillio F1</b>	Winter variety. Strong against diseases.
Red Beet (Beta vulgaris)	<b>Alvro Mono</b>	Early, monogerm beetroot for bunching.
<b>Herbs</b>		
For our organic herb seed, please contact Enza Zaden Germany or have a look at: <a href="http://www.enzazaden.de/Products/herbs/">http://www.enzazaden.de/Products/herbs/</a>		



## 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 or 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>					
<b>Viruses</b>					
Lettuce mosaic virus	Lettuce mosaic	LMV	Macrosiphum euphorbiae	Potato aphid	Me
<b>Fungi</b>					
Bremia lactucae	Downy mildew	Bl	Nasonovia ribisnigri	Lettuce leaf aphid	Nr
Sphingomonas subterraneus (ex Rhizomonas subterraneus)	Corky root	Ss	Pemphigus bursarius	Lettuce root aphid	Pb
<b>Pepper</b>					
<b>Viruses</b>					
Chilli veinial mosaic virus	Chilli veinial mosaic	Ch1MV	Ralstonia solanacearum	Bacterial wilt	Rs
Cucumber mosaic virus	Cucumber mosaic	CMV	<b>Fungi</b>		
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	<b>Nematode</b>		
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
<b>Bacteria</b>					
Xanthomonas campestris pv. vesicatoria	Bacterial spot	Xcv			
<b>Tomato</b>					
<b>Viruses</b>					
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. radicle-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 OI)
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
<b>Bacteria</b>					
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
<b>Fungi</b>					
Fulvia fulva (ex Cladosporium fulvum)	Leaf mold	Ff (ex Cf)			
<b>Melon</b>					
<b>Viruses</b>					
Melon necrotic spot virus	Melon necrotic spot	MNSV	Podospaera xanthii (ex Sphaerotheca fuliginea)	Powdery mildew	Px (ex Sf)
Fusarium oxysporum f.sp. melonis	Fusarium wilt	Fom	Gouliomyces cichoracearum (ex Erysiphe cichoracearum)	Powdery mildew	Gc
<b>Cucumber</b>					
<b>Viruses</b>					
Beet pseudo yellowing virus	Beet pseudo yellowing virus	BPV	Pseudomonas syringae pv. lachrymans	Angular leaf spot	Psi
Cucumber green mottle mosaic virus	Cucumber green mottle	CGMMV	<b>Fungi</b>		
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
Cucumber yellow stunting disorder virus	Cucumber yellow stunting disorder	CYSVDV	Fusarium oxysporum f.sp. cucumerinum	Fusarium wilt	Foc
Papaya ringspot virus	Papaya ringspot	PRSV	Fusarium oxysporum f.sp. radicle-cucumerinum	Fusarium crown and root rot	For
Watermelon mosaic virus	Watermelon mosaic	WMV	Podospaera xanthii (ex Sphaerotheca fuliginea)	Powdery mildew	Px (ex Sf)
Zucchini yellow mosaic virus	Zucchini yellows	ZYMV	Fusarium oxysporum f.sp. lagenariae	Fusarium wilt	Fol
Squash mosaic virus	Squash mosaic	SqMV	Fusarium oxysporum f.sp. melonis	Fusarium wilt	Fom
<b>Squash / Courgette</b>					
<b>Viruses</b>					
Cucumber green mottle mosaic virus	Cucumber green mottle mosaic	CGMMV	Podospaera xanthii (ex Sphaerotheca fuliginea)	Powdery mildew	Px (ex Sf)
Cucumber green mottle mosaic virus	Cucumber green mottle	CGMMV	<b>Fungi</b>		
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
Cucumber yellow stunting disorder virus	Cucumber yellow stunting disorder	CYSVDV	Fusarium oxysporum f.sp. cucumerinum	Fusarium wilt	Foc
Papaya ringspot virus	Papaya ringspot	PRSV	Fusarium oxysporum f.sp. radicle-cucumerinum	Fusarium crown and root rot	For
Watermelon mosaic virus	Watermelon mosaic	WMV	Podospaera xanthii (ex Sphaerotheca fuliginea)	Powdery mildew	Px (ex Sf)
Zucchini yellow mosaic virus	Zucchini yellows	ZYMV	Pseudoperonospora cubensis	Downy mildew	Pcu
<b>Pumpkin</b>					
<b>Viruses</b>					
Cucumber mosaic virus	Cucumber mosaic	CMV			
Watermelon mosaic virus	Watermelon mosaic	WMV			
Zucchini yellow mosaic virus	Zucchini yellows	ZYMV	Fusarium oxysporum f.sp. melonis	Fusarium wilt	Fom
Squash mosaic virus	Squash mosaic	SqMV	Fusarium oxysporum f.sp. lagenariae	Fusarium wilt	Fol
Papaya ringspot virus	Papaya ringspot	PRSV	Fusarium oxysporum f.sp. cucumerinum	Fusarium wilt	Foc
Cucumber green mottle mosaic virus	Cucumber green mottle mosaic	CGMMV	Podospaera xanthii (ex Sphaerotheca fuliginea)	Powdery mildew	Px (ex Sf)
<b>Papaya</b>					
<b>Viruses</b>					
Papaya ringspot virus	Papaya ringspot	PRSV	Podospaera xanthii (ex Sphaerotheca fuliginea)	Powdery mildew	Px
Watermelon mosaic virus	Watermelon mosaic	WMV			
Zucchini yellow mosaic virus	Zucchini yellows	ZYMV			
<b>Tolerance: SI = Silvering</b>					