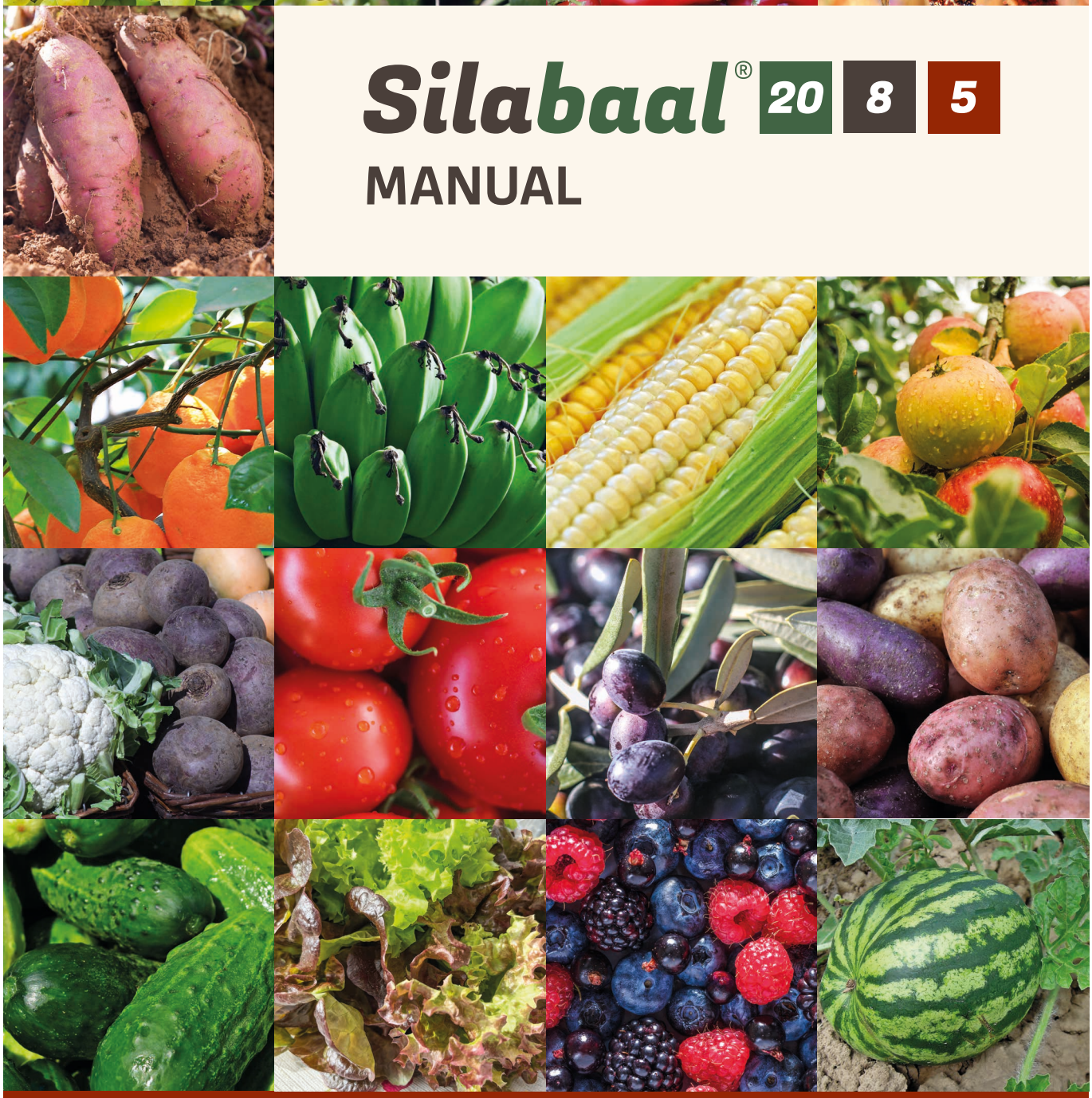


Silabaal® 2085

MANUAL



www.silabaal.com

MEBCON

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Sparkling Floralysator® for your plants

In simple terms, the use of **Silabaal®** creates an optimal climate for the plant with a high CO_2 content in the plant to enable it to perform photosynthesis better – similar like a catalytic converter.

Silabaal® ... is a foliar fertilizer and a plant growth stimulator – powered by Nature

Silabaal® ... is a powder of optimized micronized calcite (97 %) and natural-zeolite (10 %) for applying on the leaves in form of a fine mist.

Silabaal® ... is a superfine powder (90 % is between 0,1 – 32 µm) with a special grinding process – Air2Air Activation Technology

Silabaal® ... pure minerals for spraying of arable crops, vegetables and fruits

Silabaal® ... boosts growth and quality of plants naturally

Silabaal® ... 100 % natural & free of additives
100 % organic
100 % vegan

Application and technical information

Mix **Silabaal®** with approx. 200 – 400 liter of water per ha. (add wetting agent).
Spraying nozzle diameter: 150– 300µm.
Spraying pressure: ≥ 3 bar.
Apply **Silabaal®** as a fine mist to the surface of the leaves.
Silabaal® can be mixed with all available foliar fertilizers and plant aid agents.

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Dosage and application

Standard application

1st Application: 1,5 kg/ha, at 3 – 4 leaf stage.

2nd Application: 3,0 kg/ha, 14 days after 1st application.

3rd Application: 3,0 kg/ha, 14 days after 2nd application.

Application sum per vegetative period: 7,5 kg/ha. The spraying is best in the early morning hours when the plant stomata are open.

Some examples

	1st Application	2nd Application	3rd Application	4th Application
Grape	infloresence	shedding of blossoms	approx. 14 days after last application	approx. 14 days after last application
	1,5 kg/ha	3 kg/ha	3 kg/ha	3 kg/ha
Hops	approx. 60 cm height	approx. 14 days after last application	approx. 14 days after last application	approx. 14 days after last application
	1,5 kg/ha	3 kg/ha	3 kg/ha	3 kg/ha
Rapeseed	according BBCH Scale 13 – 18 approx. 10 – 15 cm plant height	from vegetative development	approx. 14 days after last application	not necessary
	2 kg/ha	3 kg/ha	3 kg/ha	
Apple/Pear	according BBCH Scale 19 – 25	approx. 14 days after last application	approx. every 14 days	not necessary
	2 kg/ha	2 kg/ha	2 kg/ha	
Other fruits	according BBCH Scale 19 – 25	approx. 14 days after last application	approx. every 14 days	approx. every 14 days
	1,5 kg/ha	3 kg/ha	3 kg/ha	3 kg/ha
Pumpkin	leaf development stage 2 – 3 approx. 5 – 16 cm plant height	approx. 14 days after last application	when the vegetation allows	not necessary
	2 kg/ha	3,5 kg/ha	2 kg/ha	

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Functionality

Mix *Silabaal*® with water.
Bring the recommended amount of powder into the water of your atomizer, add an organic wetting agent (1 drop per litre) and stir till there are no more particles of dust and a homogenous emulsion is formed. You can make a pre-mix in a bucket of about 10 litres if it is easier for you.

Start the application.

Spray a fine mist over and under the green parts of the plants in the morning and evening hours. To apply use the usual spray and misting equipment.

Safety Note:
When applying no risk is given but do not inhale sprayed or fogged product. Store in a dry and dark place. Keep out of reach of children and animals. After eye contact rinse with water.

Key factors

Key factors leading to successful functionality:

1. Timely Application (3 – 4 leaf stadium)
2. Dosage (comply with prescribed amount)
3. Wetting agent / Application with other products containing a wetting agent
4. Nozzles x Pressure
5. Water amount: 200 – 400 L/ha

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FAQs

1. **What is *Silabaal*® made of?**
   Silabaal® is a mixture of finely ground minerals containing a high concentration of CO_2. Calcite and Zeolite.

2. **How does *Silabaal*® work?**
   After being applied to both sides of the plants leaf via a fine spray mist, ***Silabaal***® enters the leaf via the stomata. The minerals release the available CO_2 inside the leaf. The production of glucose and proteins is enhanced, leading to improved plant growth. In addition, and therefore, the plant releases higher levels of oxygen.

3. **Why you use Zeolite?**
   Silabaal® contains 10 % Zeolite and this makes a big difference. The Zeolite particles can help catch the sun rays more on the leaf, and therefore bring more activity to the photosynthesis.

4. **Is the pH of the soil relevant?**
   No! Since ***Silabaal***® is absorbed through the leaf and its effect takes place within the leaf, the pH value of the soil has no influence on its effectiveness.

5. **What kind of effect does *Silabaal*® have on the growth of the plants? (Cereals)**
   Positive! The overall plant growth is stronger. Better root growth (especially deeper, denser, more complex rootage), stronger, more stable stalk development (cereals) and increased leaf mass (more biomass).

6. **What kind of effect does *Silabaal*® have during relatively cold and wet weather conditions?**
   Silabaal® has a positive effect on the vitality of the plants. As a result, the plants generally cope better with extreme situations.

7. **Is the pH of the water relevant? Extreme acidic or alkaline range?**
   No, since ***Silabaal***® unfolds its effect firstly in the interior of the leaf. In addition, the product is not toxic and therefore calls forth no chemical reaction.

8. **For which cultures is *Silabaal*® suitable?**
   Silabaal® functions with all plant types that photosynthesize.

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FAQs

9. Can I omit or reduce the use of other fertilizers or pesticides during the application of *Silabaal*®?

Basically, ***Silabaal***® is to be considered as a supplement which supports plant growth. The usual fertilizers and pesticides should not be omitted. ***Silabaal***® simply enhances the effectiveness of other products.

10. Do substances exist with which *Silabaal*® should not be mixed?

Currently there are no known substances. ***Silabaal***® is not toxic and does not change or affect the characteristics or functionality of other products.

11. How well does *Silabaal*® dissolve in water?

Silabaal® does not dissolve in water. Water is only the carrier. ***Silabaal***® continuously dissolves in the inside of the leaf via a chemical reaction.

12. Do I need to keep to the application periods exactly?

Basically, the application periods should be adhered to. Small modifications to the time scale have no influence on the product's functionality.

13. What if I need to apply later due to weather related reasons or I need to miss an application?

Each application helps the plant to cope better with the given conditions. If you cannot perform all applications, then this may naturally lead to a less positive effect on yield increase as if when all applications were completed.

14. Is *Silabaal*® also registered for use in organic farming?

Yes, it is registered as GREENKRAFT (read more information on page 13) for organic farming by InfoXgen in Austria.

15. What happens if I use too much *Silabaal*®?

Basically, this has no negative influence on the functionality. However, a fine white film may become visible on the leaf surface. This will disappear with the next rain.

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16. What happens if I use too little *Silabaal*®?

Basically, this has no negative influence on the plant. The ***Silabaal***® effect will naturally be correspondingly lower then with the recommended dosage.

17. Does the presence of *Silabaal*® have a negative influence on other plant protection agents or fertilizers?

No! Till date, all experiments with commercially available fertilizers and pesticides have shown no negative changes to their effectiveness.

18. What is so different about the product *Silabaal*®?

Silabaal® is a CO_2 fertilizer. The optimum level of CO_2 should lie between 0,1 % and 1,0 % by vol. to go for high photosynthetic activity. Air only has a level of 0,03 % by vol., which is why plants cannot utilize their optimal growth potential.
Silabaal® increases the level of CO_2 within the plant naturally, thus helping the plant to breathe.

19. Is *Silabaal*® expensive?

The application of ***Silabaal***® leads to an increase in your profit margin, which after the deduction of all costs, depending on culture, lies between € 50 and up to and above € 500 /ha.

20. Can I also use *Silabaal*® on small areas?

Yes. There are no minimum size limitations with ***Silabaal***® application.

21. Do the plants really grow faster?

Normally, the plants do not grow faster. However, should the plants be exposed to increased stress factors, growth rate differences are possible.

22. Is the yield always higher?

If you follow the recommended dosage and application procedures, then nothing should stand in the way of a yield increase.

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FAQs

23. Is it worthwhile to apply *Silabaal*® in wetlands (wet meadows)?
Since the health of the plant will be strengthened, the application of *Silabaal*® is definitely useful. *Silabaal*® helps by both dry and wet stress.

24. Where does *Silabaal*® application make the most sense?
On poor quality soils, by water deficiency, in arid environments, in nitrogen-limited sites, in problem zones.

25. Why should the fruit have a better quality?
Through the application of *Silabaal*®, the dry matter of the fruit increases, therefore, less water is stored and more flesh is formed.

26. How much water do I save?
This is dependent on the particular culture and the soil composition. University studies have shown, that for example in sunflower, water savings of 19 % were recorded, whilst at the same time, biomass increased by 13 %. Other experiments even showed water saving of 33 % in Colombia.

27. What are the benefits of *Silabaal*®?

- Increase in yield between 10 and more than 30 %
- Increased stress resistance – both dry and wet stress
- Increase in photosynthetic activity
- Stronger and branched root system
- Optimization of the pH value of the plant and better nitrogen uptake
- Improved quality
- Improved shelf life.

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Information and Application
Silabaal® on Youtube (*)













The following videos are created by our partner Steinkraft GmbH

(*) The product Silabaal® is being produced by our partner company Steinkraft in Austria. Steinkraft sells their own product under the name GREENKRAFT, predominantly in mainland Europe. The marketing and sale of said product in the Middle East and Asia is being conducted under the brand name Silabaal® by the company Mebcon International Trading FZCO, registered in Dubai.

english

https://youtu.be/bIk9HIKRTew?si=-Vsmpz4qsdFSSIvR

german

https://www.youtube.com/watch?v=fmHI8kr8yw&list=PL1aqxXXa6COGY935PknfoJdnZKmQOANEU

https://www.youtube.com/watch?v=XDHJpXmXoUA&list=PL1aqxXXa6COGGH1WyDMIib0XWin4dBtZB

https://www.youtube.com/watch?v=9QRMjsuCJcQ&list=PL1aqxXXa6COFMuCHyrKudeibg6Wp7A-SZ

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Chemical analysis

Property	Diameter	Cumulative values / %
grain size (screenings) / %	0,20 µm	1,57
	0,50 µm	4,27
	1,00 µm	11,25
	2,00 µm	22,41
	3,20 µm	30,29
	4,00 µm	34,62
	5,00 µm	39,62
	6,00 µm	44,17
	8,00 µm	52,04
	10,00 µm	58,65
	15,00 µm	72,11
	20,00 µm	83,45
	32,00 µm	97,71
	45,00 µm	100,00
	63,00 µm	100,00
	112,00 µm	100,00
	224,00 µm	100,00
	315,00 µm	100,00
	400,00 µm	100,00
	500,00 µm	100,00

ultrasonic	60 s(+M.)
obscuration	22 %
diameter 10 %	0,92 µm
diameter 50 %	7,44 µm
diameter 90 %	23,77 µm
Fraunhofer density / form factor	2,70 g/cm³
special surface	9.635,78 cm²/g
dilution	no
pH	10,0
dry substance	99,46 %

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Chemical analysis

moisture	0,54 %
loss of ignition (950°C)	44,35 %
ash (950 °C)	55,11 %
neutralizing value CaO	116,81
Ca carb. (als $CaCO_3$) dry matter	72,65 %
Ca (as CaO) dry matter	41,03 %
Mg carb. (as $MgCO_3$) dry matter	26,38 %
Mg (as MgO) in TS	12,75 %
total Fe (as Fe_2O_3) dry matter	0,11 %
Si (as SiO_2) dry matter	0,83 %
S (as SO_3) dry matter	0,09 %
K (as K_{20}) dry matter	0,11 %
P (as P_2O_5) dry matter	<0,05 %
Al (as Al_2O_3) dry matter	0,27 %
Na (as Na_2O) dry matter	0,12 %
total N dry matter	<0,1 %
chlorides dry matter	<20 mg / kg
As dry matter	1,1 mg / kg
Pb dry matter	5 mg / kg
Ba dry matter	11 mg / kg
Sr dry matter	144 mg / kg
V dry matter	7 mg / kg
Ti dry matter	0,004 %
Cd dry matter	<0,5 mg / kg
total Cr dry matter	<5 mg / kg
Cr^{6+}	<0,5 mg / kg
Ni dry matter	<3 mg / kg
Zn dry matter	4 mg / kg
Hg dry matter	0,020 mg / kg
Tl dry matter	<2 mg / kg
B dry matter	<5 mg / kg
Mn dry matter	0,005 %
Mo dry matter	3 mg / kg
Co dry matter	<3 mg / kg
Cu dry matter	5 mg / kg
Se dry matter	<0,1 mg / kg

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UNTERSUCHUNGSBEFUND

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Herr
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06536 SÜDHARZ
DEUTSCHLAND

Probennummer	2024 10 0484
Kategorie	Sonstiges
Probeneingang	10-10-2024
Verpackung	ordnungsgemäß
Versiegelung	nein
Befundung	21-10-2024
Projekt	

Probenbezeichnung: Blattdünger Silabaal

A N A L Y S E N E R G E B N I S S E

Nährstoffe (g/kg)		FM	TM	UM
Trockenmasse (je kg Futter)	**TM**	**996**		a
Rohprotein	**XP**	-	-	a
Gerüstsubstanzen	**NDF**			a
Lignozellulose	**ADF**			a
Lignin	**ADL**			a
Rohfaser	**XF**	-	-	a
Nicht-Faser-Kohlenhydrate	**NFC**	-	-	c
N-freie Extraktstoffe	**XX**	-	-	c
Stärke	**XS**	-	-	a
Zucker	**XZ**	-	-	a
Rohfett	**XL**	-	-	a
Rohasche	**XA**	-	-	a

Mengenelemente (g/kg)		FM	TM	UM
Kalzium	**Ca**	**180,6**	**181,3**	a
Phosphor	**P**	**0,4**	**0,4**	a
Magnesium	**Mg**	**34,5**	**34,6**	a
Kalium	**K**	**5,0**	**5,0**	a
Natrium	**Na**	**1,32**	**1,33**	a

Spurenelemente (mg/kg)		FM	TM	UM
Eisen	**Fe**	**12043**	**12091**	a
Mangan	**Mn**	**1176**	**1181**	a
Zink	**Zn**	**28,0**	**28,1**	a
Kupfer	**Cu**	**18,0**	**18,1**	a

weitere Parameter			FM	TM	U
Stickstoff	**N**	(g/kg)	-	-	
Ammoniak+Ammonium	**NH_3+NH_4^+**	(g/kg)	-	-	
Schwefel	**S**	(g/kg)			
Chlor	**Cl**	(g/kg)			
Nitrat	**NO_3**	(mg/kg)	-	-	
Selen	**Se**	(mg/kg)			
Bor	**B**	(mg/kg)			
Carotin		(mg/kg)	-	-	
Kationen-Anionenbilanz	**DCAB**				
Salzsäureunlösliche Rohasche		(g/kg)	-	-	
Rohfett ohne Säureaufschluss		(g/kg)	-	-	
Enzyml. org. Substanz	**ELOS**	(g/kg)	-		
Ureaseaktivität		(mg N/g/min)	-	(soll <0,4)	
Peroxidzahl	**POZ**			-	
Hektolitergewicht		(kg/hl)		-	

keine Zusatzbemerkung

Information

FM: Gehalt je kg Frischmasse (/10 = Gehalt in %)
TM: Gehalt je kg Trockenmasse (/10 = Gehalt in %)
UM: Untersuchungsmethode:
a = nasschemisch nach dem VDLUFA-Methodenbuch
b = Nah-Infrarot-Reflexionsspektroskopie (NIRS)
c = Parameter wurde berechnet

Auskünfte:

Befundinterpretation	DI Gerald Stögmüller	05/0259 – 42201
Befundverwaltung und Versand	Maria Schuster	05/0259 – 42200
Tarife und Verrechnung	Anita Schwarz	05/0259 – 42202
Analytik	Ing. Thomas Kraushofer	05/0259 – 42204

Für die Richtigkeit der Angaben

DI Gerald Stögmüller
Laborleiter

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Product leaflet

Silabaal® – With the power of nature

Promotes plant growth and quality in a natural way

Characteristics: Silabaal® natural calcium carbonate is a purely organic product. A special processing method (micronization) produces a powder with a maximum grain size of 20 µm. This powder is mixed with water and sprayed as a foliar fertilizer.

Area of application: agriculture and horticulture, can be used for organic farming
Storage: store dry and protected from moisture

Ordering, contact: MEBCON INTERNATIONAL TRADING FZCO IFZA Business Park, DDP, PO BOX 342001 Dubai, United Arab Emirates, www.mebcon.net | office@mebcon.net
Torsten Krumm +49 160 970 61 323 | t.krumm@mebcon.net

Silabaal® 20 8 5

Product information



Main components (Chemical analysis):
Magnesium lime (90 %),
Natural zeolite (10 %)

Net weight:

Keep out of reach of children and pets! Do not inhale spray mist! The base product is obtained from: Steinkraft GmbH, Spiegelsberg 5, AT-3362 Mauer. **Notice:** All information in this publication is based on our current experience and knowledge. All data represent average values and are only deemed to be guaranteed if this has been expressly confirmed in writing. As we have no influence on the processing and use of our products, we cannot accept any liability for this. The user must check the suitability for the intended processing and application on his own responsibility. Existing industrial property rights, laws and regulations must be observed.

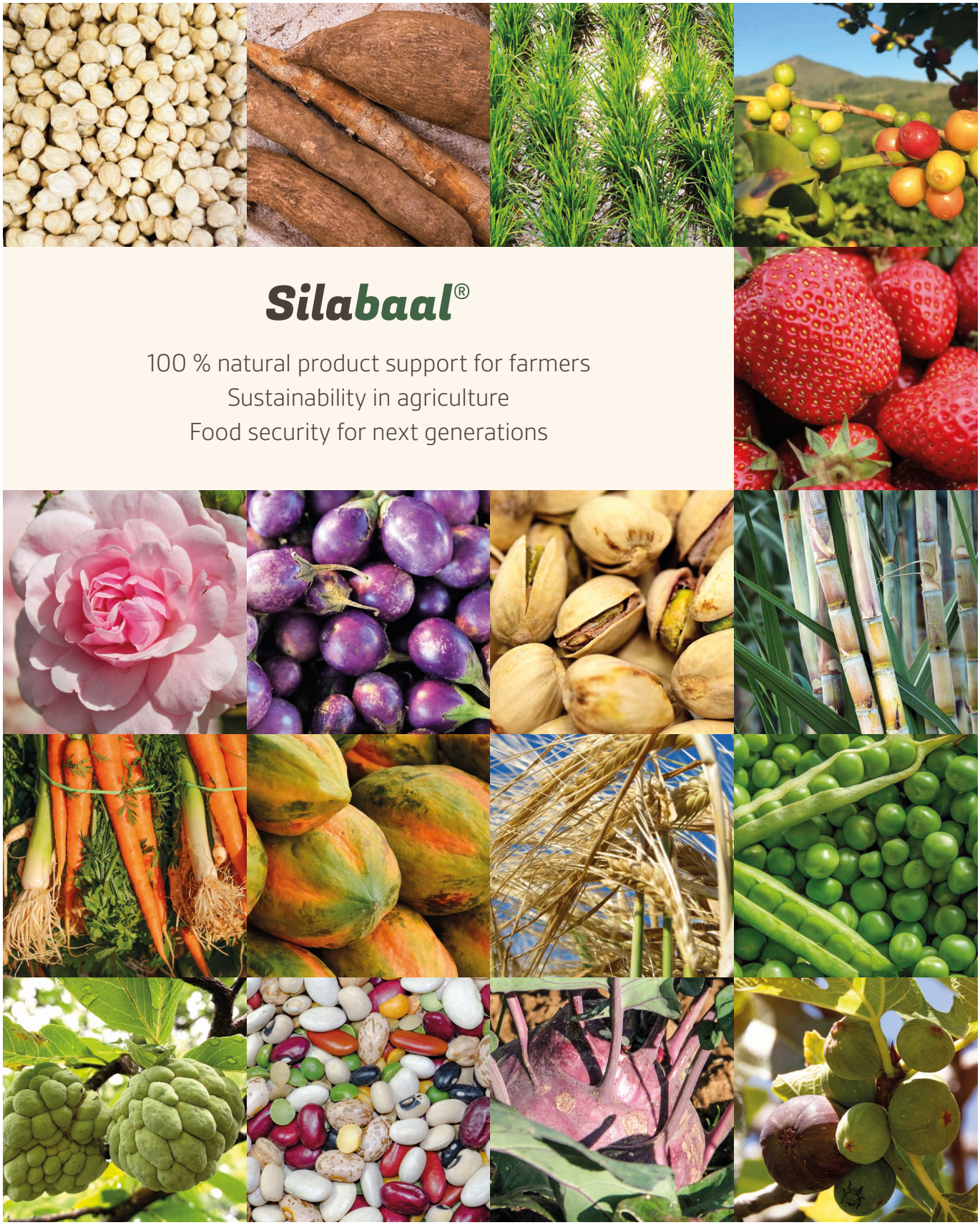
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Silabaal®

100 % natural product support for farmers
Sustainability in agriculture
Food security for next generations

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