

TERRALIFE®-SOLANUM ORGANIC

The cover crop mixture for potato cultivation

Profile

Solanum Organic is a diverse cover crop mixture, designed for use prior to potato cultivation. It combines large- and small-seeded, fast-growing legumes with brassicas and other species. This results in a diverse root system that promotes an active soil microbiome. Each species in the mixture is included to fulfil specific functions. Blue lupin can help reduce infestation with tobacco rattle virus (TRV), whilst common vetch is intended to combat potato scab. Oil radish and niger produce a large amount of biomass, which can suppress weeds and help prevent soil erosion.

- High N-potential
- Diverse root system
- Specifically developed for potato rotations

N-Potential approx. 100 kg/ha

Components

69.3%	Legumes
13.3%	Cruciferous
	Field pea, Common vetch, Bristle oat, Blue lupin, Oil radish, Serradella, Squarrose clover, Linseed, Sunflower, Egyptian clover

If individual varieties/species are not available, they will be replaced by equivalents.

Sowing pattern

	blank seed, mulch sowing, direct sowing, spreader device on tillage implement, drone

Additional information

Special characteristics	High root performance, quick shading, humus-forming, binds nitrogen.
Seed bed preparation	The sowing depth is max. 2 - 3 cm. When preparing the seedbed, make sure that the requirements of fine seeds are taken into account (fine-crumbly, well reconsolidated seedbed). In order to save water, sowing should be done immediately after the combine threshing with flat tools. A combination of tillage and drilling (e.g. with mulch seed drills) is ideal. The use of rollers (e.g. Güttler roller) in combination with spreading or drilling technology can be very useful and efficient. Very good straw distribution is important. In the case of high straw quantities, care must be taken to ensure sufficient nitrogen compensation.
Sowing rate	In case of poor external conditions, such as insufficient seedbed, late sowing date, insufficient nutrient supply and unfavourable weather, seed rates should be adjusted upwards.
Date for sowing	In case of poor external conditions, such as insufficient seedbed, late sowing date, insufficient nutrient supply and unfavourable weather, the sowing rates should be adjusted upwards.
General cultivation instructions	If sown too early and under stress conditions (especially drought stress), some plant species (buckwheat, mustard, oil radish, phacelia) may form seeds prematurely. In these cases, timely mechanical stopping of growth is recommended to prevent possible seed ripening. If the mixtures are left over winter, a mulching pass at the end of the vegetation is recommended to allow a safe freezing and even incorporation in spring. As a matter of principle, the vegetation should not be worked in green.

Crop rotations

Potatoes, Cereals, Maize, Sugar beet

Cultivation notes

Sowing rate	40 - 45 kg/ha	Until 20 August; conditionally suitable as late sowing or for cool locations.
Sowing time	from end of July to end of August	
Usage	Cover crop, normal sowing time, N-Potential: approx. 100 kg/ha, leguminous	

All organic mixtures are produced with 100 % organic content in accordance with the EU Organic Farming Regulation 2018/848. For mixtures with at least 70% organic content, the farmer must obtain approval from his inspection body for the use of the conventional content before sowing, starting with production in January 2022.

We aim to use at least 2 varieties per ripening group for mix proportions of more than 20 % of one species and for perennial ryegrass. The choice of varieties may vary depending on production. If individual species or varieties are not available, they are replaced by equivalent ones. The seed strengths are calculated for an optimal seedbed; in case of poor external conditions - such as insufficient seedbed, late sowing date, insufficient nutrient supply and unfavourable weather - the seed strengths should be adjusted upwards.

All information, recommendations and representations contained herein are made to the best of our knowledge and belief, but without guarantee of completeness or accuracy. We cannot guarantee that the properties described are repeatable. All information is provided as an aid to decision-making. Deutsche Saatveredelung AG will not be held liable for any damage or claims for damages resulting from the use of the variety specified in this description. Mixtures may vary if individual varieties are not available. Status 12/2024. Subject to change without prior notice.