

NEW CROP SHCHAVNAT

Areas of Application

The crop is used in agriculture, power generating and food industries for production of solid biofuels and biogas, valuable foodstuff and balanced feed

Specification

Perennial (10 years), ultra-early harvest culture *RUMEX OK-2*, *KYIVSKYI ULTRA*, and *NASTAVNYK* varieties bred at the NBG have been recorded in the State Register of Plants Varieties of Ukraine.

Yield of raw material:

the first harvest, t/ha	76–82
the aftermath, t/ha	23–25
Protein content, %	30–40
	(dry matter)
Ascorbic acid content, mg%	650–700
Yield of conventional biofuel, t/ha	12–15
Energy efficiency, Gcal/ha	65–80
Estimated biogas yield, m ³ /ha	15000–16000



Shchavnat, *Rumex OK-2*



Shchavnat, *Kyivskyi ultra*

Advantages

The new crop has no counterparts. As compared with sorrel, its green mass has 2–3 time lower acidity; its protein and vitamin content is higher by 30–40%. It has the earliest harvest time among all known crops. The crop has high biomass productivity, environmental stability, and number of harvests per season (up to 4 times); cost effective

Stage of Development. Suggestions for Commercialization

IRL3, TRL3

License agreement on the use of plant varieties for commercial production. Seeds and recommendations for the cultivation and use are provided



Products made of Shchavnat

IPR Protection

IPR3

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