HIGH-OLEIC CROP VARIETIES AS SOURCE OF BIODIESEL

Euro 12 variety

Areas of Application

The varieties are to be used in agriculture and energy sector for producing biodiesel, solid biofuels, and well-balanced fodders (as by-products)

Stage of Development. Suggestions for Commercialization

IRL3, TRL3
The commercial use of varieties is governed by license agreements. Seeds and recommendations on plant cultivation and use are provided

IPR Protection

IPR3

Phytopal variety

Specification

The plants are annual varieties of spring and winter crops (turnip x wild cabbage hybrid, turnip, false flax, fodder radish).
The *Phytopal*, *Ramira*, *Peremoha*, *Euro 12*, and *Raiduha* varieties bred at the NBG have been recorded in the State Register of Plant Varieties of Ukraine.

Yield of seeds, t/ha	2.5—3.0
Oil content, %	35—47
Oil output, kg/ha	800—1400
Oil energy production, Gkal/ha	50—90
Output of biofuel from by-product material, t/ha	5—6
Energy production of by-product material, Gkal/ha	>40
Protein content, t/ha	≤1.0

Advantages

The high-oleic varieties surpass the similar crops in terms of winter hardiness and drought resistance; they have a higher productivity and a better quality of phyto-material; can be used as alternative to the conventional oil crops (rapeseed and sunflower) for rotation

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