

MELAPHEN

**IS A NEXT GENERATION
GROWTH REGULATOR**

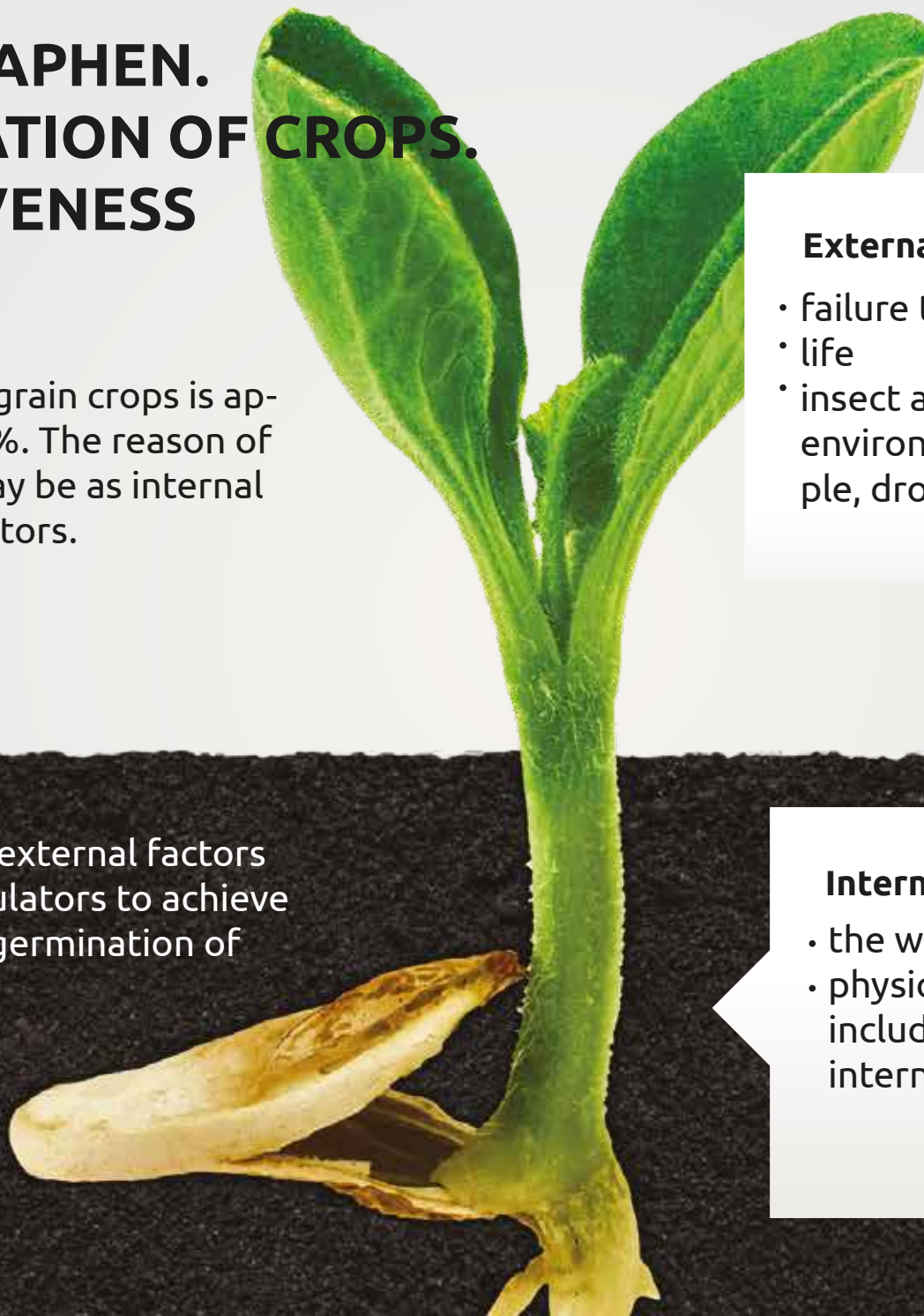


melafen.ru

THE MELAPHEN. GERMINATION OF CROPS. EFFECTIVENESS

Germination of grain crops is approximately 65 %. The reason of germ's death may be as internal and external factors.

It needs a good external factors and growth regulators to achieve good results in germination of ceeds.



External factors

- failure to comply with the shelf life
- insect and moldy infestation
- environmental factors(for example, drought, rains and frosts)

Internal factors

- the weakness of germ
- physiological mechanisms including waterproof of rind, internal inhibitors

THE MELAPHEN. WHAT IS IT?

The Melaphen used for pretreatment of seeds with a wide range of Crop and spray the plants to certain growth phase. Application of Melaphen contributes to a increase in crop yield up to 12-20 % and quality of the yield.

The Melaphen - developed by scientists from the Institute of Organic and Physical Chemistry, Kazan Scientific Center, Russian Academy of Sciences.

The Melaphen is a nanotechnology drug. The concentration of active substance is about 10×10^{-9} .



MELAPHEN. HOW DOES IT WORK?



Intensifies redox processes because activates such ferments like a peroxidase, an amylase, a catalase.



The drug stimulates plant cells's breath and the effectiveness of the cyclic phosphorylation



Contributes to earlier beginning of metabolism in ceeds and strengthens energy of growth and germination.



Regulates energy metabolism during germination of seeds, creating a favorable energy balance, increases the biological value of the seed.



6,2%

An increase in amino acid content

22,5%

An increase of effective area of roots

14,7%

An Increase the winter crops

2,65%

An increase in gluten content



10,6%

Cost reduction

MELAFEN. WHAT RESULTS OF FIELD TRIALS?

12,8%



winter
wheat

11,4%



winter
barley

20,2%



spring
barley

35,9%



beetroot

44,4%



garden
radish

66,2%



tomato

11,9%



sunflower

11%



bean

15,2%



potato

12,6%



corn

20,1%



rice

19,3%



soybeans

For over 10 years Melaphene has been tested widely in various regions of the Russian Federation, as well as in Bulgaria on a variety of white straw crops, pulse crops,

oil-plants, feed crops, and green crops. Along with the increase in yield increases the quality of products.

MELAPHEN. REGISTRATION AND RESOLUTION OF APPLICATION

The Melaphen has a national registration on 22 crops and it is officially allowed to use.

National registration
№ 2222-11111-167-0-0-3-0 15.08.2021

The Melaphen is protected by the patents and certificate on intellectual property.

The synthetic plant growth regulator “Melaphene” has been awarded gold and silver medals at various Russian and international exhibitions.



Gold medals:

- Archimedes, Moscow, 2004
- EUREKA-2004, Brussels, Belgium
- IENA-2005, Nuremberg, Germany
- EUREKA-2006, Brussels, Belgium

Silver medal:

- Geneva-2005, Geneva, Switzerland

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