





#### DEVELOPMENT OF GERMINATED CEREAL FLAKES PRODUCTION TECHNOLOGY





Work package No.2

## Germinated grains nutritive value

- Intense biochemical processes occur during the grain germination time, as a result grain biological value increases:
- √the content of vitamins  $B_2$ , E and niacin, total sugar, dietary fibre increase;
- √vitamin C is synthesized;
- √the content of irreplaceable amino acids is increased during the process of protein hydrolysis (*Rakčejeva T., 2006*).







### Pilot-research / results

Starch

granules

Protein, % (DM)

10.1

10.0

10.2

10.5

10.5

10.5

Control

Steeped

12h

24h

36h

48h



**Grain sample** 

■ Type A □ Type B

### Pilot-research / results



■ Fructose ■ Glucose ■ Sucrose ■ Maltose



# Necessary raw materials for experiments

> Selection of grain rolling parameters





#### Thank you for attention