



# Organic milk processing

Dr. Regula Bickel ([regula.bickel@fibl.org](mailto:regula.bickel@fibl.org))

Financial support



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Швейцарська Конфедерація



## Important rules and annexes

- › Basics: EU – Regulation 834/2007: Article 6, 8 - 10
  - › Organic agricultural ingredients in minimum 95%
  - › Restricted use of additives
  - › Exclusion of substances and processing methods that might be misleading regarding the true nature of product
  - › Processing with care
  - › No use of GMO
  - › No use of ionising radiation
  
- › Implementing rules: 889/2008:
  - › Important are: Article 26 – 28
  - › Annex VIII and Annex IX



## Important rules and annexes

- › Article 26: Rules for the production of processed feed and food
  - › Additives, processing aids and other substances and ingredients used for processing food shall respect the principles of good manufacturing practice.
  - › Establish a appropriate procedure based on a systematic identification of critical processing steps
  - › Guarantee at all time the process and ingredients comply with organic rules
  - › Documentation of all steps is very important
  - › If you produce organic and no-organic at the same place: Avoid contamination at every place



## Important rules and annexes

- › Art 27: Use of certain products and substances in processing of food
- › Annex VIII: products and substances for use in processed food
  - › Positive list: the use of food additives is limited - it is not allowed to use others than listed in Annex VIII
  - › Section A Food additives, including carriers
  - › Section B Processing aids and other products for processing
  - › Section C Processing aids for yeast and yeast products
- › preparations of micro-organisms and enzymes normally used in food processing;
- › natural flavouring substances or natural flavouring preparations



## Important rules and annexes

- › Article 28: Use of certain non-organic ingredients of agricultural origin in processing food
  - › All ingredients listed in annex IX can be used in the processing of organic food
  - › If you would like to use a non listed ingredient:
    - › Ask the certification body, if it is possible to use



## Specific principles: Organic ingredients

- › Organic agricultural ingredients in minimum 95%
  - › Organic Milk
  - › Organic skim milk powder, whey powder
  - › Organic Fruits
  - › Organic Sugar
  - › Organic Herbs
  - › Organic Spices
  - › ...



## Specific principles: no-organic ingredients

- › 5% conventional ingredients, when not available in organic form on the market and listed on the positive lists IX of the implementing rules
  - › Annex IX
    - › Some edible fruits, nuts, seeds: e.g. cola nuts, dried raspberries
    - › Some edible spices: e.g. safflower flowers
    - › Some oils, not chemical modified – no trans fatty acids!
      - › Attention: it's a negative list!
    - › Some sugars, starches: starch from rice and waxy maize
    - › Animal products: gelatine, whey powder herasuola



## Specific principles: food additives, including carriers

- › Exercise: what do you usually use in the Ukrainian dairy products:
  - › Stabilisers
  - › Thickeners
  - › Gelling agents
  - › Emulsifiers
  
- › Allowed are only additives mentioned in annex VIII
- › Additives marked with a “\*” shall be calculated as ingredients of agricultural origin
  - › They should be replaced by organic products, if possible. E.g. lecithin
  - › Prohibition of the use of GMO, as well as “derived” from, made from/with
    - › Infoxgen.com





## Specific principles applicable to processing of organic food

- › True nature: exclusion of substances and processing methods that might mislead the true nature of the product:
  - › But: No specific prohibition of processing parameters
- › Processing with care; preferably with biological, mechanical and physical methods



## Recommendation: authenticity - healthy

- › Consumers expect for organic products healthy and natural products:
  - › Use of natural raw materials
  - › Use of less additives
- › Don't use a lot of «E-numbers»
  - › Use it only, if your really need it and if it is not possible to produce the product without.