Water Kefir

History of Fermentation Origin of Water Kefir Microorganisms Alleged Health Benefits

Questions? Water Kefir Tasting

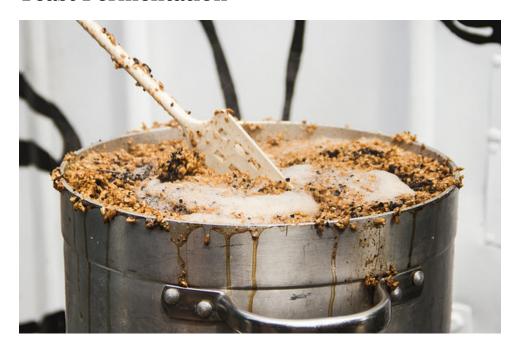
How-To make Water Kefir Material 1st/2nd Fermentation Preservation

Questions?

History of Fermentation



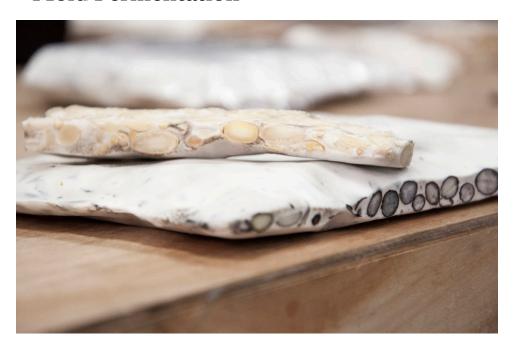
Yeast Fermentation



Bacteria Fermentation



Mold Fermentation

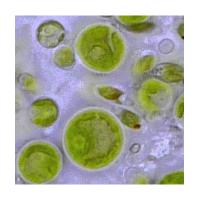


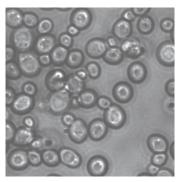
Bacteria and Yeast Fermentation

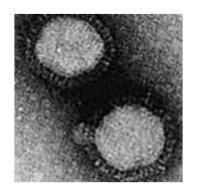




Microorganisms











Algae

Fungi

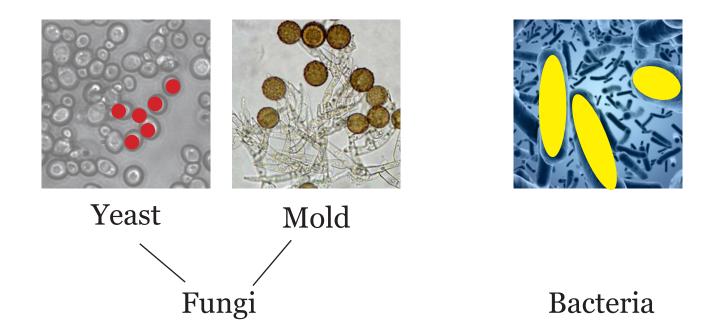
Virus

Bacteria

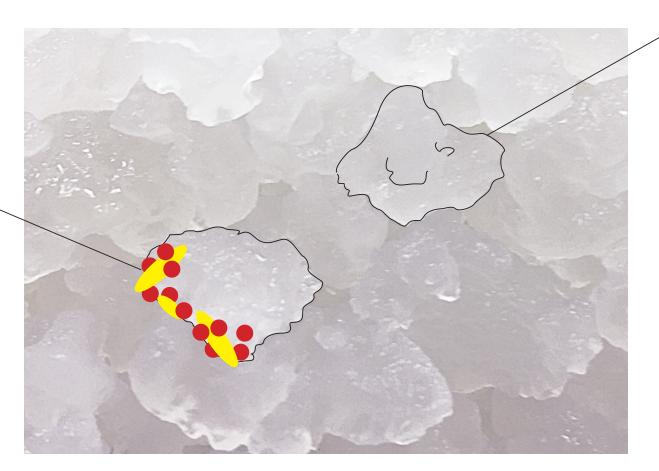
Protozoa

Waterkefir: a symbiotic colony of bacteria and yeast

Microorganisms such as molds, yeasts or bacteria create enzymes to break down energy rich organic substances into simpler compounds.



Bacteria and yeast live on the outside of the grains



Kefir grains consist of a biofilm made of polysaccharides and microorgansims

Bacteria

Species Lactobacillus

L. brevis

L. casei

L. hilgardii

L. hordei

L. nagelii

Species Leuconostoc

L. citreum

L. mesenteroides

Species Acetobacter

A. fabarum

A. orientalis

Species Streptococcus

S. lactis

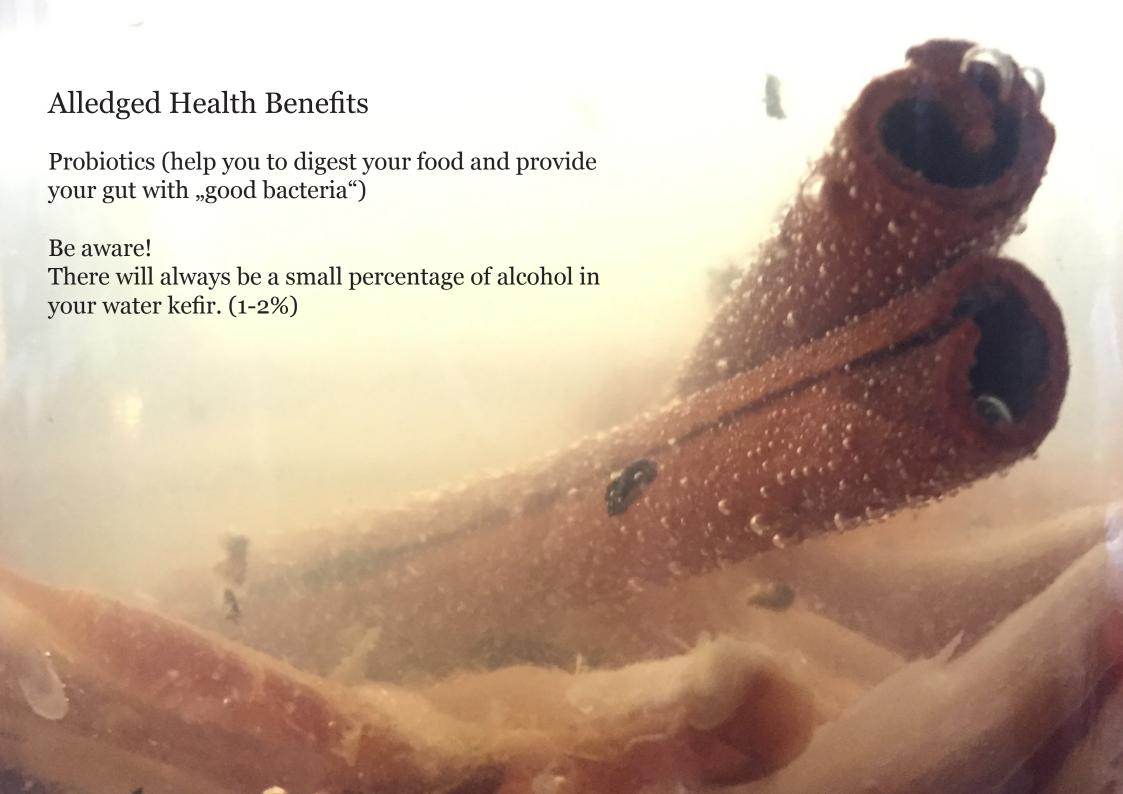
Yeast

Hanseniaospora valbyensis

Lachancea fermentati

Saccharomyces cerevisiae

Zygotorulaspora florentina





Frist & Second Fermentation





1ST 2ND

First Fermentation

Materials:

Cheese cloth Rubber band Measuring jugWBulk jar

Water Kefir 50g

Sugar 30-40g

Water 500 ml

Fig 15g



First Fermentation

1. Water Kefir (50g)

rinse with water before using

2. Sugar (30g-40g) + (15g Fig)

different sugar -> different taste half tsp molasses are good for your WK add dried fruits for succrose and minerals (fig, date, raisin)

3. Water (0,5 Liter)

proper drinking water

-> WK needs minerals in water but no chlorine



25°C (room temperature) 48 hours



Second Fermentation

1. Strain the grains

use a stainless steel sieve catch the luquid in another container

2. Bottle the liquid

use any bottle which you can close porperly

3. Flavour

you can use any flavour you like add juices, herbs, spices add sugary content



25°C (room temperature)
24 hours
plastic bottle or
pressure proof glass bottle





You can store the Water Kefir Grains in the fridge for about three weeks before you have to feed them again and keep them alive.

Make sure the container you keep them in is airtight and if there is steel, make sure it is stainless steel.

