



** preßt natürlich
was Sie brauchen!*

Fruchtsaft Bayer

Fruit- and Vegetableprocessing

Dr. Thilo Stockert



**...preßt natürlich
was Sie brauchen!*



Requirements for the rawmaterial in the food (beverage) industry – black currant Today- Tomorrow

- Farmer/ Food industry
 - Breeding, Research
- Usage in the food industry
- Construction and ingredients
- Usage for the future
- Perspective
 - Research, Breeding



** preßt natürlich
was Sie brauchen!*

Usages from Black Currant products in the food industry

- Mostly
 - iqf, juice, pulp, concentrate
 - Beverage (juice, sirup, liqueur, spirits)
 - Canned
 - Preserved
 - Bakeries
 - Dairy
- Further
 - fresh
 - pharmacy
 - beauty care



** preßt natürlich
was Sie brauchen!*

Requirements for the Farmer

- Fertility
- Resistance against diseases
- Time of ripening
- Mechanical harvest
- Acidity (if paid for it)
- Yield, Yield, Yield



** preßt natürlich
was Sie brauchen!*

Requirements for the rawmaterial in the beverage industry – black currant

- Acidity -> Nectar
- Brix -> Concentrate
- Juice, Pulp
 - colour
 - flavour
 - yield, yield, yield



** preßt natürlich
was Sie brauchen!*



• Construction of Black Currant

– Bush

- root
- wood
- leaf
- berry
 - Fruit skin
 - flesh of fruit
 - seeds



** preßt natürlich
was Sie brauchen!*



• Ingredients from Black Currant fruits

- Fruit Skin
 - Flavonoide (Colour), **Anthocyanidins (antioxidativ)**, Pectin
- Flesh of Fruit
 - Vitamine C, P-Factor (positiv for blood vessels)
- Seeds
 - **Fatty Acids:** Linolacid 41 %, Alpha-Linolacid 17 %, Gamma-Linolacid 14 %, Oilacid 15 %, Palmitinacid 7,5 %, Stearidonacid 2,9 %, Stearinacid 1,5 %, Tocopherols, B-Carotines



**...preßt natürlich
was Sie brauchen!*

!!!!Health claims!!!!

- Black Currant seems usefull/ preventiv for
 - Cancer
 - Cardiovasculär desease
 - Colds
 - Rheumatism
 - Throat
 - etc.



** preßt natürlich
was Sie brauchen!*

Proceeding Products from Black Currants in the beverage industry

- Juice, Pulp, Concentrate
- But also
 - Pomace
 - Skin (with a little bit fruit flesh), seeds
 - waste, animal food, pectin production,
 - » pharmacy, cosmetic



** preßt natürlich
was Sie brauchen!*

- Possibilities

- Oil



Black Currant Oil

- Extracts from the dried berries





** preßt natürlich
was Sie brauchen!*



Usages from Black Currant products in the food industry

Today and Tomorrow

- fresh
- iqf, juice, pulp, concentrate
 - Beverage
 - Canned
 - Preserved
 - Bakeries
- **Pharmacy**
- **Colour Industry**



**preßt natürlich
was Sie brauchen!*

Products from Black Currants in the beverage industry - tomorrow

- Added Value
 - **Skin, Seeds are in the main focus**
 - Juice, Pulp, Concentrate ??????
- Research and Breeding for the future
 - Increasing from ingredients (Anthocyanes, fatty acids etc.)
 - Qualities from Black currant varieties for the future ????
 - Thick skin with high ingredients
 - A lot of seeds or great seed with high ingredients



** preßt natürlich
was Sie brauchen!*

Nobody knows, what the future will really bring.

But let us take the future as challenge!