

kwas

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **11**
- SRM **3.8**
- Style **Berliner Weisse**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **26.3 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **69 C**, Time **60 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	1.5 kg (30%)	85 %	4
Grain	Pilzneński	3.5 kg (70%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	100 ml	Fermentis
lactobacillus rhamnosus	Ale	Culture	30 g	---

Extras

Type	Name	Amount	Use for	Time
Flavor	Wiśnie	2700 g	Secondary	14 day(s)