

witek

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **11**
- SRM **2.9**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **14.4 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **70 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **12 liter(s)** of strike water to **66.2C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **70 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **16.8 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	1.7 kg (41.5%)	81 %	4
Adjunct	Pszenica niesłodowana	1.7 kg (41.5%)	75 %	3
Grain	Płatki owsiane	0.4 kg (9.8%)	85 %	3
Grain	słód diastatyczny	0.3 kg (7.3%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	25 g	60 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
wlp644	Ale	Liquid	100 ml	white labs

Extras

Type	Name	Amount	Use for	Time
Spice	kolendra	15 g	Boil	10 min
Spice	curacao	20 g	Boil	10 min