

## witbier 123

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **11**
- SRM **3.5**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **31.2 liter(s)**

### Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **18.1 liter(s)**
- Total mash volume **23.6 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **18.1 liter(s)** of strike water to **74.1C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **31.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.5 kg (53.8%)	80 %	4
Adjunct	Pszenica niesłodowana	1 kg (15.4%)	75 %	3
Grain	Pszeniczny	1.5 kg (23.1%)	85 %	4
Grain	dekstrynujący	0.1 kg (1.5%)	100 %	4
Grain	płatki ryżowe	0.4 kg (6.2%)	75 %	---

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Styrian Golding	30 g	60 min	3.6 %
Boil	Cascade	10 g	10 min	6 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM23 Magiczny ogród	Wheat	Liquid	100 ml	Fermentum Mobile

### Extras

Type	Name	Amount	Use for	Time
Spice	Kolendra	10 g	Boil	10 min
Spice	trawa cytrynowa	10 g	Boil	10 min