

# Witbier

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **21**
- SRM **3.9**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **0 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **0 min** at **76C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann pszeniczny jasny	1.5 kg (30%)	80 %	6
Grain	Pilzneński	3 kg (60%)	81 %	4
Grain	Płatki pszeniczne	0.5 kg (10%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Styrian Golding	30 g	60 min	3.6 %
Boil	Styrian Golding	10 g	15 min	3.6 %
Boil	Saaz (Czech Republic)	15 g	15 min	4.5 %
Boil	Saaz (Czech Republic)	15 g	5 min	4.5 %
Boil	Styrian Golding	20 g	5 min	3.6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
s-33	Ale	Dry	11.5 g	---

## Extras

Type	Name	Amount	Use for	Time
Spice	kolendra	20 g	Boil	15 min
Spice	skórka pomarańczy	20 g	Boil	15 min
Spice	skórka pomarańczy gorzkiej	20 g	Boil	15 min