

# WITBIER

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **15**
- SRM **3.6**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **4 %**
- Size with trub loss **26 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **28.9 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **22.5 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **14.7 liter(s)** of **76C** water or to achieve **30.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (46.7%)	81 %	4
Grain	Pszenica niesłodowana	3 kg (46.7%)	75 %	3
Grain	Płatki owsiane	0.43 kg (6.7%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	30 g	60 min	4.2 %
Boil	Saaz (Czech Republic)	20 g	15 min	4.2 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM20 Białe Walonki	Wheat	Liquid	40 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
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Spice	Skórka słodkiej pomarańczy	20 g	Boil	15 min
Spice	Skórka curacao	20 g	Boil	15 min
Spice	Kolendra	20 g	Boil	15 min