

## Warka 2

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **8**
- SRM **5.8**
- Style **Weizen/Weissbier**

### Batch size

- Expected quantity of finished beer **14 liter(s)**
- Trub loss **5 %**
- Size with trub loss **14.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **17.4 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.8 liter(s)**
- Total mash volume **11.8 liter(s)**

### Steps

- Temp **46 C**, Time **15 min**
- Temp **63 C**, Time **25 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **8.8 liter(s)** of strike water to **50.3C**
- Add grains
- Keep mash **15 min** at **46C**
- Keep mash **25 min** at **63C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **11.5 liter(s)** of **76C** water or to achieve **17.4 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	1.75 kg (59.5%)	85 %	4
Grain	Pilzniejszy	1.05 kg (35.7%)	85 %	4
Grain	Strzegom Karmel 150	0.14 kg (4.8%)	80 %	150

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	12 g	60 min	4 %
Boil	Lublin (Lubelski)	2 g	1 min	4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M20 Bavarian Wheat	Wheat	Dry	7 g	Mangrove Jack's

### Extras

Type	Name	Amount	Use for	Time
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Flavor	Skórka cytrynowa	5 g	Primary	---
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