

#149 German PILS

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **38**
- SRM **2.7**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **15 %**
- Size with trub loss **20 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **21.6 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **67 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **13 liter(s)** of **76C** water or to achieve **25 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	4.8 kg (100%)	80.5 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	28 min	12.7 %
Boil	Hallertau Mittelfruh	60 g	5 min	3 %

Yeasts

Name	Type	Form	Amount	Laboratory
W34/70	Lager	Slant	200 ml	---

Notes

- Piwo szykowane na Warszawski KPD23'
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