

Waldemar Blonde PA

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **29**
- SRM **6.5**
- Style **Blonde Ale**

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 **3.1 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18.5 liter(s)**

Steps

- Temp **64 C**, Time **20 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **14 liter(s)** of strike water to **71.1C**
- Add grains
- Keep mash **20 min** at **64C**
- Keep mash **20 min** at **72C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg (66.7%)	85 %	7
Grain	Monachijski	1 kg (22.2%)	80 %	16
Grain	Abbey Malt Weyermann	0.3 kg (6.7%)	75 %	45
Grain	Carabelge	0.2 kg (4.4%)	80 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	55 min	7.6 %
Boil	Styrian Golding	30 g	15 min	2.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11.5 g	Fermentis