

CASCADE PL PILS

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **29**
- SRM **3.4**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **32.3 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

Steps

- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **19.3 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **18.5 liter(s)** of **76C** water or to achieve **32.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	5.5 kg (100%)	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade PL	35 g	60 min	7.8 %
Aroma (end of boil)	Cascade PL	20 g	10 min	7.8 %
Whirlpool	Cascade PL	30 g	0 min	7.8 %
Dry Hop	Cascade PL	80 g	5 day(s)	7.8 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager S-189	Lager	Liquid	200 ml	Fermentis

Extras

Type	Name	Amount	Use for	Time
Fining	whirlflock	1.25 g	Boil	10 min

Notes

- Jednowarowa dekokcja, odbiór na początku 72°C
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