

Pils am

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **26**
- SRM **3.7**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **26.9 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **20.3 liter(s)**
- Total mash volume **26.1 liter(s)**

Steps

- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **20.3 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **20 min** at **72C**
- Sparge using **12.4 liter(s)** of **76C** water or to achieve **26.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	5 kg (86.2%)	80.5 %	2
Grain	Monachijski	0.5 kg (8.6%)	80 %	16
Grain	Weyermann - Acidulated Malt	0.3 kg (5.2%)	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Citra	30 g	25 min	12 %
Aroma (end of boil)	Citra	50 g	0 min	12 %
Dry Hop	citra	120 g	5 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
safale w34	Lager	Dry	24 g	---