

fake pils

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **34**
- SRM **6.4**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **10 %**
- Size with trub loss **11.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.3 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **10.2 liter(s)**
- Total mash volume **13.1 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **10.2 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **7 liter(s)** of **76C** water or to achieve **14.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.3 kg (79.3%)	81 %	4
Grain	Weyermann - Carapils	0.45 kg (15.5%)	78 %	4
Grain	Biscuit Malt	0.1 kg (3.4%)	79 %	45
Grain	Caraaroma	0.05 kg (1.7%)	78 %	300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	13.5 %
Aroma (end of boil)	Tettnang	35 g	5 min	4 %
Aroma (end of boil)	Saaz (Czech Republic)	10 g	5 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Iutra	Ale	Slant	10 ml	---

Extras

Type	Name	Amount	Use for	Time
Water Agent	wit c	2 g	Bottling	---