

Pilzner

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **35**
- SRM **4.5**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **67 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **22 liter(s)**
- Total mash volume **27.5 liter(s)**

Steps

- Temp **55 C**, Time **10 min**
- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **22 liter(s)** of strike water to **59.4C**
- Add grains
- Keep mash **10 min** at **55C**
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **9.2 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (90.9%)	81 %	4
Grain	Monachijski	0.5 kg (9.1%)	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	hallertauer taurus	15.5 g	60 min	15.5 %
Boil	Tettnanger	25 g	10 min	3.8 %
Boil	Hellertau Hersbrucker	25 g	10 min	4.3 %
Dry Hop	Tettnanger	25 g	2 day(s)	3.8 %
Dry Hop	Hellertau Hersbrucker	25 g	2 day(s)	4.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast 2308 Munich Lager	Lager	Liquid	2000 ml	Wyeast

Extras

Type	Name	Amount	Use for	Time
Spice	Whirflock	2 g	Boil	15 min