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

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg <i>(90.9%)</i>	81 %	4
Grain	Monachijski	0.5 kg <i>(9.1%)</i>	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	Туре	Form	Amount	Laboratory
Wyeast 2308 Munich Lager	Lager	Liquid	2000 ml	Wyeast

Extras

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