Bavarian

- Gravity 11 BLG
- ABV 4.4 %
- IBU **30**
- SRM 3.2
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 5 %
- Size with trub loss 15.8 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 9.2 liter(s)
- Total mash volume 12.3 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 9.2 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 10 min at 78C
- Sparge using 12.9 liter(s) of 76C water or to achieve 19 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg <i>(97.7%)</i>	81 %	4
Grain	Acid Malt	0.07 kg <i>(2.3%)</i>	58.7 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	13.5 %
Boil	Magnum	5 g	15 min	13.5 %
Aroma (end of boil)	Magnum	10 g	5 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - Bavarian Lager	Lager	Slant	300 ml	Wyeast Labs