GERMAN PILS #3

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **42**
- SRM **3.7**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 33.1 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 18.6 liter(s)
- Total mash volume 23.9 liter(s)

Steps

- Temp 55 C, Time 5 min
 Temp 65 C, Time 70 min
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 18.6 liter(s) of strike water to 60C
- Add grains
- Keep mash 5 min at 55C
- Keep mash 70 min at 65C
- Keep mash 5 min at 76C
- Sparge using 19.8 liter(s) of 76C water or to achieve 33.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4.5 kg <i>(84.9%)</i>	81 %	5
Grain	Weyermann - Vienna Malt	0.3 kg (5.7%)	81 %	8
Grain	Weyermann - Carapils	0.3 kg (5.7%)	78 %	4
Grain	Weyermann - Acidulated Malt	0.2 kg (3.8%)	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Admiral	30 g	60 min	12.1 %
Boil	Tettnang	50 g	10 min	4 %
Boil	Tettnang	50 g	5 min	4 %