# german pilsner

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 33
- SRM 3.6
- 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 75 %
- Liquor-to-grist ratio 3 liter(s) / kg •
- Mash size 18 liter(s) .
- Total mash volume 24 liter(s)

#### Steps

- Temp 52 C, Time 5 min
  Temp 64 C, Time 25 min
  Temp 70 C, Time 30 min
- Temp 78 C, Time 1 min

#### Mash step by step

- Heat up 18 liter(s) of strike water to 57.3C
- ٠ Add grains
- Keep mash 5 min at 52C •
- Keep mash 25 min at 64C
- Keep mash 30 min at 70C
- Keep mash 1 min at 78C
- Sparge using 21.1 liter(s) of 76C water or to achieve 33.1 liter(s) of wort

# **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	BESTMALZ - Best Pilsen	6 kg <i>(100%)</i>	80.5 %	4

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Tradition	50 g	60 min	5 %
Boil	Tettnang	25 g	30 min	4 %
Aroma (end of boil)	Hallertau Mittelfruh	25 g	10 min	3 %
Aroma (end of boil)	Tettnang	25 g	5 min	4 %

# **Yeasts**

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M84 Bohemian Lager	Lager	Dry	22 g	Mangrove Jack's

# **Extras**

	Name	Amount	Use for	Time
туре	Name	Amount	036101	Time
71* *				_

Recipe has been printed via BREWNESS.com - a complex online solution for homebrewers to track brewing process easily.

Fining whirlfloc T	2.5 g	Boil	10 min	
--------------------	-------	------	--------	--