Pale Ale Bitter v. 2.0

- Gravity 11.9 BLG
- ABV ----
- IBU 28
- SRM 12.5
- Style Special/Best/Premium Bitter

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 24.2 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.4 liter(s)
- Total mash volume 19.2 liter(s)

Steps

- Temp **62 C**, Time **30 min** Temp **72 C**, Time **30 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 14.4 liter(s) of strike water to 69C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 10 min at 78C
- Sparge using 20.8 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4 kg (83.3%)	85 %	7
Grain	Cara Crystal Castlemalting	0.15 kg <i>(3.1%)</i>	78 %	150
Grain	Weyermann - Carapils	0.25 kg <i>(5.2%)</i>	78 %	4
Grain	Weyermann - Carawheat	0.15 kg <i>(3.1%)</i>	77 %	110
Grain	Weyermann - Caramunich	0.25 kg <i>(5.2%)</i>	80 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	30 g	60 min	5.8 %
Boil	English Golding	20 g	55 min	4.7 %
Aroma (end of boil)	English Golding	40 g	0 min	4.7 %
Dry Hop	Epic	60 g	5 day(s)	3.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	15 g	Boil	15 min