BP/PB

- Gravity 15.7 BLG
- ABV 6.6 %
- IBU 26
- SRM 14.3
- Style Brown Porter

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 10 % •
- Size with trub loss 19.8 liter(s) •
- Boil time 90 min
- Evaporation rate 15 %/h Boil size 26.5 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio **3 liter(s)** / kg Mash size **18 liter(s)** ٠
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- Total mash volume 24 liter(s)

Steps

• Temp 67 C, Time 60 min

Mash step by step

- Heat up 18 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 67C
- Sparge using 14.5 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg (48.4%)	85 %	7
Grain	Colorado Honig	1 kg (16.1%)	79 %	6
Grain	Briess - Munich Malt 20L	1 kg (16.1%)	74 %	39
Grain	Simpsons - Crystal Rye	0.5 kg (8.1%)	73 %	177
Grain	Abbey Castle	0.5 kg <i>(8.1%)</i>	80 %	45
Sugar	Milk Sugar (Lactose)	0.2 kg <i>(3.2%)</i>	76.1 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kent Goldings	50 g	45 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Flavor	PB2	500 g	Boil	15 min

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Flavor	Jagody?	500 g	Boil	15 min
Flavor	Jagody?	1000 g	Secondary	5 day(s)