Amer pale ale

- Gravity 12.1 BLG
- ABV ----
- IBU **72**
- SRM **6.2**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 25.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

• Temp 66 C, Time 60 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Sparge using 19.4 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	3 kg <i>(54.5%)</i>	85 %	7
Grain	Weyermann - Bohemian Pilsner Malt	2 kg <i>(36.4%)</i>	81 %	4
Grain	Munich malt	0.2 kg <i>(3.6%)</i>	%	14
Grain	Caramunich® typ I	0.3 kg (5.5%)	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	50 g	60 min	13.5 %
Aroma (end of boil)	Bullion	25 g	5 min	7.75 %
Aroma (end of boil)	Ultra	25 g	0 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
M15	Ale	Dry	10 g	Mangrove