APA

- Gravity 12.2 BLG
- ABV ---
- IBU **35**
- SRM **5.4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss --- %
- Size with trub loss --- liter(s)
- Boil time 60 min
- Evaporation rate --- %/h
- Boil size --- liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio --- liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

Steps

- Temp 50 C, Time 5 min
 Temp 66 C, Time 45 min
 Temp 72 C, Time 25 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 12 liter(s) of strike water to 55C
- Add grains
- Keep mash 5 min at 50C
- · Keep mash 45 min at 66C
- Keep mash 25 min at 72C
- Keep mash 5 min at 78C
- Sparge using -8 liter(s) of 76C water

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) US	3.5 kg	79 %	4
Grain	Munich Malt	0.5 kg	80 %	23

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	30 g	60 min	10 %
Dry Hop	Mosaic	20 g	7 day(s)	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale