APA #1

- Gravity 13.3 BLG
- ABV 5.5 %
- IBU **32**
- SRM **5.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s)
- Total mash volume 21.2 liter(s)

Steps

- Temp 63 C, Time 50 min
 Temp 72 C, Time 10 min

Mash step by step

- Heat up 15.9 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 50 min at 63C
- Keep mash 10 min at 72C
- Sparge using 14.7 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg <i>(94.3%)</i>	81 %	2.5
Grain	Briess - Caracrystal Wheat Malt	0.3 kg <i>(5.7%)</i>	78 %	108

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Loral	13 g	60 min	23.2 %
Aroma (end of boil)	Citra	90 g	0 min	11.6 %
Dry Hop	Citra	90 g	4 day(s)	11.6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Slant	200 ml	Safale