GALAXY APA

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **44**
- SRM **6.9**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.1 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.3 liter(s) / kg
- Mash size 18.1 liter(s)
- Total mash volume 23.6 liter(s)

Steps

- Temp 64 C, Time 50 min
 Temp 72 C, Time 15 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 18.1 liter(s) of strike water to 70.7C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 18.5 liter(s) of 76C water or to achieve 31.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	4 kg (72.7%)	80 %	5
Grain	Monachijski	1 kg (18.2%)	80 %	16
Grain	Caramunich® typ I	0.5 kg (9.1%)	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	10 g	60 min	16.5 %
Boil	Galaxy	20 g	20 min	16.5 %
Boil	Galaxy	20 g	10 min	16.5 %

Yeasts

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