Sunny State APA

- Gravity 12.4 BLG
- ABV **5** %
- IBU 37
- SRM **3.9**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 90 min
- Evaporation rate 5 %/h
- Boil size 24.7 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 55 C, Time 15 min
 Temp 70 C, Time 60 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 60C
- Add grains
- Keep mash 15 min at 55C
- Keep mash 60 min at 70C
- Sparge using 12.2 liter(s) of 76C water or to achieve 24.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale Maris Otter	4 kg (80%)	79 %	4
Grain	Weyermann pszeniczny jasny	1 kg <i>(20%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	5 g	60 min	7.1 %
Boil	Cascade	5 g	60 min	6.9 %
Boil	Centennial	5 g	60 min	9.7 %
Boil	Citra	5 g	60 min	13.8 %
Boil	Amarillo	5 g	30 min	7.1 %
Boil	Cascade	5 g	30 min	6.9 %
Boil	Centennial	5 g	30 min	9.7 %
Boil	Citra	5 g	30 min	13.8 %
Aroma (end of boil)	Cascade	5 g	2 min	6.9 %
Aroma (end of boil)	Amarillo	5 g	2 min	7.1 %
Dry Hop	Amarillo	15 g		7.1 %
Dry Hop	Cascade	15 g		6.9 %

Dry Hop	Centennial	20 g	 9.7 %
Dry Hop	Citra	20 g	 13.8 %

Yeasts

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