APA z Ananasem

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU 27
- SRM **3.4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.6 liter(s)
- Total mash volume 20.8 liter(s)

Steps

- Temp 68 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 15.6 liter(s) of strike water to 76C
- Add grains
- Keep mash 40 min at 68C
- Keep mash 20 min at 72C
- Keep mash 10 min at 76C
- Sparge using 18.6 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (96.2%)	81 %	4
Grain	Płatki owsiane	0.2 kg <i>(3.8%)</i>	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Puławski	5 g	60 min	8.9 %
Boil	Puławski	10 g	15 min	8.9 %
Boil	Citra	10 g	15 min	13.5 %
Boil	Mosaic	10 g	15 min	11.8 %
Boil	Centennial	10 g	15 min	9.7 %
Boil	Puławski	5 g	5 min	8.9 %
Whirlpool	Citra	5 g	0 min	13.5 %
Whirlpool	Centennial	5 g	0 min	9.7 %
Whirlpool	Mosaic	5 g	0 min	11.8 %

Yeasts

Name Type	Form	Amount	Laboratory
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Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Flavor	Ananas	600 g	Secondary	7 day(s)
Flavor	Gruszka	800 g	Secondary	7 day(s)