Sour APA

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU **87**
- SRM **5.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 8 liter(s)
- Trub loss 5 %
- Size with trub loss 8.8 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 10.6 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 7.1 liter(s)
- Total mash volume 9.4 liter(s)

Steps

- Temp 65 C, Time 50 min
 Temp 72 C, Time 10 min
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 7.1 liter(s) of strike water to 72.4C
- Add grains
- Keep mash 50 min at 65C
- Keep mash 10 min at 72C
- Keep mash 1 min at 78C
- Sparge using **5.9 liter(s)** of **76C** water or to achieve **10.6 liter(s)** of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	1.5 kg <i>(63.8%)</i>	80 %	4
Grain	Barley, Flaked	0.2 kg (8.5%)	70 %	4
Grain	Oats, Flaked	0.4 kg <i>(17%)</i>	80 %	2
Grain	Abbey Malt Weyermann	0.25 kg <i>(10.6%)</i>	75 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	15 g	15 min	13.1 %
Whirlpool	Equinox	35 g	20 min	13.1 %
Dry Hop	Equinox	50 g	3 day(s)	13.1 %
Whirlpool	Eureka!	20 g	20 min	18 %
Dry Hop	Eureka!	50 g	3 day(s)	18 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Liquid	40 ml	Fermentum Mobile

Lactobacillus Plantarum Ale Dry 2 g Serowar.p	ol
---	----