#64 APA Galaxy Cascade Centennial

- Gravity 12.9 BLG
- ABV **5.2** %
- IBU **36**
- SRM 4.8
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 11 liter(s)
- · Boil time 60 min
- Evaporation rate 12 %/h
- Boil size 13.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.55 liter(s) / kg
- Mash size 9.6 liter(s)
- Total mash volume 12.3 liter(s)

Steps

• Temp 68 C, Time 60 min

Mash step by step

- Heat up 9.6 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 68C
- Sparge using 6.5 liter(s) of 76C water or to achieve 13.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński Mep	2.2 kg (81.5%)	81 %	4
Grain	Abbey Malt Weyermann	0.15 kg <i>(5.6%)</i>	75 %	45
Grain	Weyermann - Carapils	0.15 kg <i>(5.6%)</i>	78 %	8
Grain	Płatki owsiane	0.2 kg (7.4%)	70 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	5 g	60 min	11 %
Boil	Centennial	25 g	5 min	9 %
Boil	Galaxy	25 g	5 min	15 %
Dry Hop	Galaxy	15 g	3 day(s)	15 %
Dry Hop	Cascade	35 g	3 day(s)	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	6 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
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Make a Assess	Cinn missessmalei	1	Dell	20
Water Agent	Gips piwowarski	1 g	Boil	30 min