

APA v3

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **37**
- SRM **4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **34.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **24.5 liter(s)**
- Total mash volume **31.5 liter(s)**

Steps

- Temp **70 C**, Time **60 min**

Mash step by step

- Heat up **24.5 liter(s)** of strike water to **77.1C**
- Add grains
- Keep mash **60 min** at **70C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **34.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg (50%)	80 %	5
Grain	Viking Pilsner malt	3.5 kg (50%)	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Iunga	25 g	60 min	11 %
Whirlpool	Citra	17 g	20 min	12.9 %
Whirlpool	Simcoe	17 g	20 min	12.9 %
Whirlpool	Mosaic	17 g	20 min	12.3 %
Dry Hop	Citra	33 g	2 day(s)	12.9 %
Dry Hop	Simcoe	33 g	2 day(s)	12.9 %
Dry Hop	Mosaic	33 g	2 day(s)	12.3 %

Yeasts

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

Notes

- HGB
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