

APA Single Hop Cascade

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **35**
- SRM **4.7**
- Style **American IPA**

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 **4 liter(s) / kg**
- Mash size **29.6 liter(s)**
- Total mash volume **37 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **29.6 liter(s)** of strike water to **70.6C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **5 min** at **78C**
- Sparge using **6.8 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (67.6%)	80 %	5
Grain	Pszeniczny	1.9 kg (25.7%)	85 %	4
Grain	Płatki owsiane	0.5 kg (6.8%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	35 g	60 min	6 %
Boil	Cascade	45 g	30 min	6 %
Dry Hop	Cascade	50 g	1 day(s)	6 %
Dry Hop	Citra	30 g	---	12 %

Yeasts

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