

Colorado APA

- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **31**
- SRM **3.7**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.6 liter(s)**
- Total mash volume **16.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **3 min**

Mash step by step

- Heat up **12.6 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **3 min** at **78C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (95.2%)	80 %	5
Grain	Carabody Viking malt	0.2 kg (4.8%)	79 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Comet	20 g	60 min	8.3 %
Boil	Comet	10 g	10 min	8.3 %
Boil	Summit	10 g	10 min	17 %
Boil	Summit	20 g	0 min	17 %
Boil	Willamette	10 g	0 min	5 %
Boil	Ekuanot	10 g	0 min	14 %
Dry Hop	Willamette	20 g	5 day(s)	5 %
Dry Hop	Ekuanot	20 g	5 day(s)	14 %

Yeasts

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