

# Colorado APA

- Gravity **11 BLG**
- ABV ---
- IBU **48**
- SRM **4.1**
- 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 **65 min**
- Evaporation rate **5 %/h**
- Boil size **23.2 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 **68 C**, Time **60 min**

## Mash step by step

- Heat up **12.6 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **14.8 liter(s)** of **76C** water or to achieve **23.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Colorado Pale Base	4 kg (95.2%)	80 %	6
Grain	Caramel/Crystal Malt - 10L	0.2 kg (4.8%)	80 %	0.2

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Horizon	20 g	60 min	14 %
Aroma (end of boil)	Horizon	10 g	10 min	14 %
Aroma (end of boil)	Summit	10 g	10 min	17 %
Whirlpool	Summit	20 g	0 min	17 %
Whirlpool	Nugget	10 g	0 min	13 %
Whirlpool	Ekuanot	10 g	0 min	14 %
Dry Hop	Nugget	20 g	4 day(s)	13 %
Dry Hop	Ekuanot	20 g	4 day(s)	14 %

## Yeasts

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