

# Pale ale columbus

---

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **23**
- SRM **5.2**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.6 liter(s)**
- Total mash volume **24.8 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	6 kg (96.8%)	80 %	5
Grain	Melanoiden Malt	0.2 kg (3.2%)	80 %	39

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	15 g	60 min	15.5 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	30 g	0 min	15.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	300 ml	---

## Extras

Type	Name	Amount	Use for	Time
Fining	Irish moss	4 g	Boil	15 min