

# COLD APA

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **23**
- SRM **4.2**
- Style **American Pale Ale**

## 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 **75 %**
- Liquor-to-grist ratio **3.7 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **25.4 liter(s)**

## Steps

- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **0 min**

## Mash step by step

- Heat up **20 liter(s)** of strike water to **68.8C**
- Add grains
- Keep mash **45 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **11.9 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 5 kg (92.6%)  | 80 %  | 5   |
| Grain | Cara-Pils/Dextrine   | 0.4 kg (7.4%) | 72 %  | 4   |

## Hops

| Use for             | Name       | Amount | Time   | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil                | Citra      | 5 g    | 45 min | 12 %       |
| Boil                | Citra      | 5 g    | 30 min | 12 %       |
| Boil                | Mosaic     | 6 g    | 30 min | 10 %       |
| Aroma (end of boil) | Mosaic     | 5 g    | 5 min  | 10 %       |
| Aroma (end of boil) | Lemon drop | 5 g    | 5 min  | 4.6 %      |
| Boil                | Mosaic     | 7 g    | 45 min | 10 %       |

## Yeasts

| Name             | Type  | Form  | Amount | Laboratory |
|------------------|-------|-------|--------|------------|
| Saflager W 34/70 | Lager | Slant | 400 ml | Fermentis  |