

# White Ipa

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **50**
- SRM **4.4**
- Style **White IPA**

## Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **21.1 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

## Steps

- Temp **55 C**, Time **15 min**
- Temp **63 C**, Time **80 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **15.6 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **15 min** at **55C**
- Keep mash **80 min** at **63C**
- Keep mash **5 min** at **78C**
- Sparge using **10.7 liter(s)** of **76C** water or to achieve **21.1 liter(s)** of wort

## Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Viking Pilsner malt | 2.4 kg (46.2%) | 82 %  | 4   |
| Grain | Viking Wheat Malt   | 1.5 kg (28.8%) | 83 %  | 5   |
| Grain | Wheat, Flaked       | 1 kg (19.2%)   | 77 %  | 4   |
| Grain | Oats, Flaked        | 0.3 kg (5.8%)  | 80 %  | 2   |

## Hops

| Use for             | Name    | Amount | Time   | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil                | Warrior | 15 g   | 60 min | 18.5 %     |
| Boil                | Pekko   | 20 g   | 15 min | 13.6 %     |
| Aroma (end of boil) | Citra   | 30 g   | 0 min  | 12 %       |
| Aroma (end of boil) | Simcoe  | 20 g   | 0 min  | 13.2 %     |

## Yeasts

| Name               | Type  | Form  | Amount | Laboratory |
|--------------------|-------|-------|--------|------------|
| FM20 Białe Walonek | Wheat | Slant | 100 ml | ---        |

## Extras

| Type  | Name                       | Amount | Use for | Time  |
|-------|----------------------------|--------|---------|-------|
| Spice | kolendra                   | 10 g   | Boil    | 5 min |
| Spice | curacao                    | 20 g   | Boil    | 5 min |
| Spice | skórka słodkiej pomarańczy | 20 g   | Boil    | 5 min |