

# White Ipa

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **43**
- SRM **4.1**
- Style **White IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 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 **3.5 liter(s) / kg**
- Mash size **18.9 liter(s)**
- Total mash volume **24.3 liter(s)**

## Steps

- Temp **67 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **18.9 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **67C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **11.8 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	2.5 kg (46.3%)	80 %	5
Grain	Viking Wheat Malt	1.5 kg (27.8%)	83 %	5
Grain	Płatki pszeniczne	1 kg (18.5%)	85 %	3
Grain	Płatki owsiane	0.4 kg (7.4%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	25 g	60 min	15.5 %
Aroma (end of boil)	Centennial	30 g	2 min	10.5 %
Dry Hop	Mosaic	50 g	4 day(s)	10 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM20 Białe Walonki	Wheat	Liquid	20 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
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Spice	Skórki gorzkiej pomarańczy	30 g	Boil	0 min
Spice	Kolendra	10 g	Boil	0 min
Spice	Aframon madagaskarski	5 g	Boil	0 min