

# Brut IPA

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **35**
- SRM **3.3**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **2.5 %**
- Size with trub loss **25.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

## Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **17.5 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4.5 kg (90%)	80 %	4
Grain	Płatki owsiane	0.5 kg (10%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	lunga	30 g	60 min	11 %
Whirlpool	Nelson Sauvín	20 g	0 min	10.8 %
Whirlpool	Galaxy	20 g	0 min	14.2 %
Whirlpool	Sabro	20 g	0 min	15 %
Dry Hop	Sabro	80 g	2 day(s)	15 %
Dry Hop	Galaxy	30 g	2 day(s)	14.2 %
Dry Hop	Nelson Sauvín	30 g	2 day(s)	10.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	250 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Fining	Mech irlandzki	8 g	Boil	10 min