

# Rye IPA

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- Gravity **13.6 BLG**
- ABV ---
- IBU **65**
- SRM **8.9**
- Style **Rye 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 **26.4 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.4 liter(s)**
- Total mash volume **21.9 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **15 min**

## Mash step by step

- Heat up **16.4 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **15 min** at **72C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (73.1%)	81 %	4
Grain	Żytni	1 kg (18.3%)	85 %	8
Grain	Viking Pale Ale malt	0.2 kg (3.7%)	80 %	5
Grain	Karmelowy żytni Strzegom	0.25 kg (4.6%)	75 %	150
Grain	Strzegom Czekoladowy 1200	0.02 kg (0.4%)	68 %	1202

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	45 g	60 min	13 %
Whirlpool	Chinook	40 g	0 min	13 %
Whirlpool	Amarillo	20 g	0 min	9.5 %
Whirlpool	Cascade	20 g	0 min	6 %
Dry Hop	Amarillo	30 g	4 day(s)	9.5 %
Dry Hop	Chinook	30 g	4 day(s)	13 %
Dry Hop	Citra	30 g	4 day(s)	12 %
Dry Hop	Cascade	30 g	4 day(s)	6 %

## Yeasts

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

<b>Name</b>	<b>Type</b>	<b>Form</b>	<b>Amount</b>	<b>Laboratory</b>
Mangrove Jack's M44 US West Coast	Ale	Dry	10 g	Mangrove Jack's