

# żytnia ipa

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **72**
- SRM **8.3**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 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 **21 liter(s)**
- Total mash volume **27 liter(s)**

## Steps

- Temp **67 C**, Time **75 min**

## Mash step by step

- Heat up **21 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **67C**
- Sparge using **10.3 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	3.5 kg (58.3%)	80 %	5
Grain	Weyermann - Rye Malt	1.45 kg (24.2%)	85 %	7
Grain	Strzegom Pilzneński	1 kg (16.7%)	80 %	4
Grain	Jęczmień palony	0.05 kg (0.8%)	55 %	985

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	50 g	60 min	11 %
Boil	Cascade	20 g	30 min	7.1 %
Boil	Cascade	25 g	10 min	7.1 %
Dry Hop	Pacifica (NZ)	30 g	5 day(s)	4.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis