

Żytnia IPA

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **65**
- SRM **5.5**
- Style **Rye IPA**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **14.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.5 liter(s)**
- Total mash volume **14.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **11.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **6 liter(s)** of **76C** water or to achieve **14.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.3 kg (69.7%)	80 %	5
Grain	Żytni	0.6 kg (18.2%)	85 %	8
Grain	Strzegom Wiedeński	0.3 kg (9.1%)	79 %	10
Grain	Karmelowy Jasny 30EBC	0.1 kg (3%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Aroma (end of boil)	Amarillo	25 g	5 min	9.5 %
Aroma (end of boil)	Nelson Sauvín	20 g	0 min	11 %
Dry Hop	Amarillo	25 g	3 day(s)	9.5 %
Dry Hop	Nelson Sauvín	20 g	3 day(s)	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Slant	200 ml	Fermentum Mobile