

rye ipa

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **58**
- SRM **4.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **12.5 liter(s)**
- Total mash volume **17.5 liter(s)**

Steps

- Temp **64 C**, Time **60 min**

Mash step by step

- Heat up **12.5 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **60 min** at **64C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **19.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (100%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	25 g	60 min	13.7 %
Aroma (end of boil)	Mosaic	50 g	5 min	12 %
Aroma (end of boil)	Citra	25 g	1 min	13.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	11 g	Mangrove Jack's