

Sour Red IPA

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **49**
- SRM **11**
- Style **Red IPA**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **90 min**
- Evaporation rate **5 %/h**
- Boil size **13.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.9 liter(s)**
- Total mash volume **14.6 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **10.9 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **6.5 liter(s)** of **76C** water or to achieve **13.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.6 kg (98.6%)	80 %	5
Grain	Weyermann - Carafa Special III	0.05 kg (1.4%)	70 %	1024

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	18 g	60 min	15.7 %
Aroma (end of boil)	Enigma (AUS)	20 g	0 min	17.2 %
Aroma (end of boil)	Galaxy	20 g	0 min	15 %
Aroma (end of boil)	Mosaic	20 g	0 min	10 %

Yeasts

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

Extras

Type	Name	Amount	Use for	Time
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Other	Lallemand WildBrew Sour Pitch (Lactobacillus plantarum)	1 g	Primary	2 day(s)
Bakterie użyte do zakwaszenia 10 l brzezki.				

Notes

- Chmiel na aromat dodany po schłodzeniu brzezki do 75 stopni i przetrzymany przez 20 minut (sekcja "Aromat (koniec gotowania)").
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