

Red

- Gravity **16.1 BLG**
- ABV ---
- IBU **38**
- SRM **10.3**
- Style **Red IPA**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **10 %**
- Size with trub loss **13.2 liter(s)**
- Boil time **70 min**
- Evaporation rate **15 %/h**
- Boil size **15.5 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

Steps

- Temp **72 C**, Time **15 min**
- Temp **66 C**, Time **45 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **10.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **8.5 liter(s)** of **76C** water or to achieve **15.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale	1.8 kg (51.4%)	80 %	4
Grain	Monachijski	0.7 kg (20%)	80 %	16
Grain	Cara Hell	1 kg (28.6%)	80 %	25

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kent Goldings	30 g	50 min	5.5 %
Aroma (end of boil)	Kent Goldings	20 g	10 min	5.5 %
Aroma (end of boil)	Kent Goldings	30 g	5 min	5.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	7 g	Safale