

Golden sun rice - nowe chmiele

- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **23**
- SRM **3.3**
- Style **American Pale Ale**

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 liter(s) / kg**
- Mash size **12.6 liter(s)**
- Total mash volume **16.8 liter(s)**

Steps

- Temp **69 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **12.6 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Keep mash **10 min** at **78C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilznieński	2.7 kg (64.3%)	80 %	4
Grain	Rye, Flaked	1.2 kg (28.6%)	78.3 %	4
Grain	Caramel Pils	0.3 kg (7.1%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Motueka	10 g	60 min	5.4 %
Boil	Rakau (NZ)	20 g	15 min	10.2 %
Boil	Motueka	10 g	5 min	5.4 %
Whirlpool	Motueka	30 g	10 min	5.4 %

Zamienić na coś innego: może nelsona?

Yeasts

Name	Type	Form	Amount	Laboratory
Lutra OYL-071	Ale	Slant	100 ml	Omega