

Panika ale po polsku

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **23**
- SRM **3.7**
- Style **Blonde Ale**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8 liter(s)**
- Total mash volume **10.6 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **8 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **77C**
- Sparge using **9.9 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.3 kg (86.5%)	80 %	5
Grain	Weyermann - Carapils	0.18 kg (6.8%)	78 %	4
Grain	Oats, Flaked	0.18 kg (6.8%)	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Sybilla	15 g	10 min	5.5 %
Boil	Marynka	11 g	55 min	8.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	120 ml	Fermentis