

Jasny Mordehaj

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **30**
- SRM **6.4**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.1 liter(s)**
- Total mash volume **20.2 liter(s)**

Steps

- Temp **50 C**, Time **5 min**
- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **15.1 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **5 min** at **50C**
- Keep mash **30 min** at **63C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **17.8 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5 kg (99%)	80 %	4
Grain	Czekoladowy	0.05 kg (1%)	60 %	788

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10.5 %
Boil	Styrian Golding	20 g	20 min	4.8 %
Boil	Saaz (Czech Republic)	20 g	5 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	150 ml	Fermentis

Extras

Type	Name	Amount	Use for	Time
Fining	irish moss	10 g	Boil	10 min