

LagerType1

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **42**
- SRM **4.1**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **8 liter(s)**
- Trub loss **5 %**
- Size with trub loss **8.4 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **11.5 liter(s)**

Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **7 liter(s)**
- Total mash volume **9 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **7 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **6.5 liter(s)** of **76C** water or to achieve **11.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	1.8 kg (90%)	82 %	4
Grain	Viking Munich Malt	0.2 kg (10%)	78 %	18

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	90 min	7 %
Boil	Lublin (Lubelski)	30 g	20 min	3.6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	11.5 g	Fermentis