

Lager Starter

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **39**
- SRM **3.7**
- Style **Bohemian Pilsener**

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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.1 liter(s)**
- Total mash volume **10.8 liter(s)**

Steps

- Temp **66 C**, Time **30 min**
- Temp **72 C**, Time **50 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **8.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **30 min** at **66C**
- Keep mash **50 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **9.8 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Castle Malting - Pilzneński 6-rzędowy	2 kg (74.1%)	80 %	5
Grain	Pszeniczny	0.7 kg (25.9%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	30 min	8.7 %
Whirlpool	Lublin (Lubelski)	40 g	1 min	4 %
Whirlpool	Saaz (Czech Republic)	20 g	1 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	11 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Water Agent	gips	5 g	Mash	60 min

Fining	whirflock	1 g	Boil	5 min
--------	-----------	-----	------	-------