

## lager 12

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **39**
- SRM **4.4**
- Style **Bohemian Pilsener**

### Batch size

- Expected quantity of finished beer **55 liter(s)**
- Trub loss **5 %**
- Size with trub loss **57.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **69.6 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **37.2 liter(s)**
- Total mash volume **49.6 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **37.2 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **44.8 liter(s)** of **76C** water or to achieve **69.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom pilzneński	10 kg (80.6%)	80 %	4
Grain	Strzegom Monachijski typ I	2.4 kg (19.4%)	79 %	16

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kazbek	100 g	60 min	4.98 %
Boil	Sybilla	100 g	30 min	6 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	23 g	Fermentis Division of S.I.Lesaffre