

Pils 12 BLG German Lager - 29-08-2018

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **41**
- SRM **4**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **63C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5.5 kg (91.7%)	81 %	4
Grain	Monachijski	0.5 kg (8.3%)	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	10 %
Boil	Marynka	15 g	30 min	10 %
Boil	Lublin (Lubelski)	38 g	20 min	4 %
Whirlpool	Lublin (Lubelski)	10 g	0 min	4 %
Whirlpool	Marynka	10 g	0 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
34/70	Lager	Dry	12 g	Fermentis