

## pils sortland #3

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **26**
- SRM **3.5**
- Style **German Pilsner (Pils)**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

### Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **25 min**
- Temp **75 C**, Time **1 min**

### Mash step by step

- Heat up **16.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **25 min** at **72C**
- Keep mash **1 min** at **75C**
- Sparge using **19.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	5 kg (90.9%)	82 %	4
Grain	Weyermann - Carapils	0.5 kg (9.1%)	78 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	hallertauer taurus	15 g	60 min	15.8 %
Boil	hallertauer taurus	5 g	15 min	15.8 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - Octoberfest Lager Blend	Lager	Culture	200 g	Wyeast Labs

### Extras

Type	Name	Amount	Use for	Time
Fining	whirflock	3 g	Boil	15 min