

## [Kveik] Bitter (Oslo)

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- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **37**
- SRM **6.4**
- Style **Special/Best/Premium Bitter**

### Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **16.6 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **13.2 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

### Mash step by step

- Heat up **10.5 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **1 min** at **78C**
- Sparge using **8.7 liter(s)** of **76C** water or to achieve **16.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Fawcett - Maris Otter	2.43 kg (92.4%)	80.3 %	6
Grain	Fawcett - Pale Crystal	0.2 kg (7.6%)	72.8 %	90

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	30 g	60 min	5.9 %
Boil	Fuggles	10 g	5 min	5.9 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Oslo	Ale	Slant	50 ml	---

### Extras

Type	Name	Amount	Use for	Time
Finning	Mech irlandzki	3 g	Boil	10 min