

# Old Ale

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- Gravity **17.3 BLG**
- ABV ---
- IBU **60**
- SRM **15.2**
- Style **Old Ale**

## 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 **12.8 liter(s)**
- Total mash volume **17 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

## Mash step by step

- Heat up **12.8 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **72C**
- Sparge using **6.7 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (70.6%)	80 %	5
Grain	Bestmalz Red X	1 kg (23.5%)	79 %	30
Grain	Special B Malt	0.25 kg (5.9%)	65.2 %	315

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	80 g	60 min	4.5 %
Boil	Fuggles	20 g	10 min	4.51 %

## Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Slant	200 ml	---