

# Brown Ale

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- Gravity **11.7 BLG**
- ABV ---
- IBU **43**
- SRM **20.8**
- Style **Brown IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **65 min**
- Evaporation rate **15 %/h**
- Boil size **25.6 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

## Steps

- Temp **62 C**, Time **60 min**
- Temp **76 C**, Time **0 min**

## Mash step by step

- Heat up **12 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **0 min** at **76C**
- Sparge using **17.6 liter(s)** of **76C** water or to achieve **25.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.4 kg (85%)	85 %	7
Grain	Carahell	0.4 kg (10%)	77 %	26
Grain	Weyermann - Carafa II	0.2 kg (5%)	70 %	837

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kent Goldings	30 g	60 min	5.5 %
Aroma (end of boil)	Challenger	30 g	50 min	7 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	25 g	0 min	15.5 %
Dry Hop	Citra	25 g	5 day(s)	12 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale