Brown Ale

- Gravity 11 BLG
- ABV 4.4 %
- IBU **31**
- SRM **15**
- Style American Brown Ale

Batch size

- Expected quantity of finished beer 19 liter(s)
- Trub loss 5 %
- Size with trub loss 19.9 liter(s)
- Boil time 65 min
- Evaporation rate 10 %/h
- Boil size 24.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 14 liter(s)
- Total mash volume 18 liter(s)

Steps

- Temp **62 C**, Time **60 min** Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **0 min**

Mash step by step

- Heat up 14 liter(s) of strike water to 68C
- Add grains
- Keep mash 60 min at 62C
- Keep mash 20 min at 72C
- Keep mash 0 min at 76C
- Sparge using 14.3 liter(s) of 76C water or to achieve 24.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.4 kg <i>(85%)</i>	85 %	7
Grain	Carahell	0.4 kg <i>(10%)</i>	77 %	26
Grain	Carafa II	0.2 kg <i>(5%)</i>	73 %	812

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	15 g	60 min	7.6 %
Boil	Challenger	15 g	15 min	7.6 %
Boil	Warrior	30 g	5 min	13.4 %

Yeasts

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