#139 American Brown Ale

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU 36
- SRM **15.2**
- Style Northern English Brown Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 4 %
- Size with trub loss 10.4 liter(s)
- · Boil time 70 min
- Evaporation rate 14 %/h
- Boil size 13.3 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 5.5 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 15.9 liter(s)

Steps

- Temp **67 C**, Time **35 min** Temp **72.5 C**, Time **45 min**
- Temp 77 C, Time 5 min

Mash step by step

- Heat up 13.5 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 35 min at 67C
- Keep mash 45 min at 72.5C
- Keep mash 5 min at 77C
- Sparge using 2.3 liter(s) of 76C water or to achieve 13.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.9 kg <i>(77.6%)</i>	80 %	5
Grain	Brown Malt (British Chocolate)	0.41 kg <i>(16.7%)</i>	70 %	128
Grain	Special W	0.14 kg <i>(5.7%)</i>	73 %	300

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Ekuanot	10 g	15 min	14 %
Dry Hop	Ekuanot	70 g	9 day(s)	14 %
Aroma (end of boil)	Ekuanot	30 g	5 min	14 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Danstar - Windsor Ale	Ale	Slant	100 ml	Danstar

Extras

Туре	Name	Amount	Use for	Time
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Fining	WhirlFloc	1.04 g	Boil	12 min
Other	Witamina C	2 g	Secondary	9 day(s)