93 NUT

- Gravity 15.4 BLG
- ABV 6.5 %
- IBU **16**
- SRM 10.5
- 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 90 min
- Evaporation rate 10 %/h
- Boil size 25.2 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 2 liter(s) / kg
- Mash size 11.9 liter(s)
- Total mash volume 17.8 liter(s)

Steps

- Temp 69 C, Time 45 min
 Temp 77 C, Time 5 min

Mash step by step

- Heat up 11.9 liter(s) of strike water to 81.2C
- Add grains
- Keep mash 45 min at 69C
- Keep mash 5 min at 77C
 Sparge using 19.2 liter(s) of 76C water or to achieve 25.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	3.9 kg <i>(65.8%)</i>	81 %	6
Grain	Biscuit Malt	1.3 kg <i>(21.9%)</i>	79 %	45
Grain	Oats, Flaked	0.5 kg (8.4%)	80 %	2
Grain	Brown Malt (British Chocolate)	0.23 kg <i>(3.9%)</i>	70 %	128

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northern Brewer	21 g	90 min	7 %
Mash	Northdown	14 g	20 min	6.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP002 - English Ale Yeast	Ale	Liquid	10 ml	White Labs