Whisky stout z resztek

- Gravity 15.9 BLG
- ABV 6.7 %
- IBU **35**
- SRM **34.5**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 23.3 liter(s)
- Total mash volume 31 liter(s)

Steps

- Temp 68 C, Time 65 min
 Temp 72 C, Time 10 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 23.3 liter(s) of strike water to 76C
- Add grains
- Keep mash 65 min at 68C
- Keep mash 10 min at 72C
- Keep mash 10 min at 78C
- Sparge using 9.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Casle Malting Whisky Nature	5 kg <i>(64.5%)</i>	65 %	4
Grain	Monachijski	1 kg (12.9%)	65 %	16
Grain	Carafa II	0.1 kg <i>(1.3%)</i>	65 %	812
Grain	Fawcett - Pale Chocolate	0.5 kg (6.5%)	71 %	600
Grain	Viking melanoidynowy	0.5 kg (6.5%)	65 %	60
Grain	Carahell	0.4 kg <i>(5.2%)</i>	77 %	26
Grain	Jęczmień palony	0.25 kg (3.2%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Minstrel	50 g	60 min	4.9 %
Whirlpool	Ahtanum	50 g	0 min	5 %
Boil	Fuggles	25 g	60 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-05	Ale	Dry	11.5 g	

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Gips	5 g	Boil	75 min