Rye Stout #1

- Gravity 15.9 BLG
- ABV ----
- IBU **53**
- SRM **52.5**
- Style Dry Stout

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 10 %
- Size with trub loss 11 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 12.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 9 liter(s)
- Total mash volume 12 liter(s)

Steps

- Temp 100 C, Time 60 min
- Temp 38 C, Time 15 min
- Temp 67 C, Time 45 min
- Temp 72 C, Time 10 min
 Temp 79 C, Time 5 min

Mash step by step

- Heat up 9 liter(s) of strike water to 41C
- Add grains
- Keep mash 15 min at 38C
- Keep mash 45 min at 67C
- Keep mash 10 min at 72C
- Keep mash 5 min at 79C
- Keep mash 60 min at 100C
- Sparge using 6.7 liter(s) of 76C water or to achieve 12.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	1.5 kg <i>(50%)</i>	80 %	4
Grain	Casle Malting Whisky Nature	0.5 kg <i>(16.7%)</i>	85 %	4
Grain	Weyermann - Chocolate Rye	0.25 kg (8.3%)	78.3 %	650
Grain	Weyermann - Carafa II	0.25 kg (8.3%)	70 %	837
Grain	Barley, Flaked	0.25 kg <i>(8.3%)</i>	70 %	4
Grain	Black Barley (Roast Barley)	0.25 kg (8.3%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	15 g	60 min	12 %
Aroma (end of boil)	Cascade	10 g	30 min	7.2 %
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Dry Hop	Simcoe	20 a	5 day(s)	12.3 %
Diy nop	Julicoc	1209	J day (3)	12.5 /0

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	6 g	Safale