R.I.S.

- Gravity 24.2 BLG
- ABV **11.2** %
- IBU **84**
- SRM **55.8**
- Style Russian Imperial Stout

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 10 %
- Size with trub loss 17.3 liter(s)
- Boil time 120 min
- Evaporation rate 15 %/h
- Boil size 23.4 liter(s)

Mash information

- Mash efficiency 65 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 27.9 liter(s)
- Total mash volume 37.2 liter(s)

Steps

- Temp 62 C, Time 15 min
 Temp 72 C, Time 90 min
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up 27.9 liter(s) of strike water to 69C
- Add grains
- Keep mash 15 min at 62C
- Keep mash 90 min at 72C
- Keep mash 1 min at 76C
- Sparge using 4.8 liter(s) of 76C water or to achieve 23.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(53.8%)</i>	80 %	5
Grain	Briess - Munich Malt 20L	2 kg <i>(21.5%)</i>	74 %	39
Grain	CaraMunich Type 2 - Weyermann	0.3 kg <i>(3.2%)</i>	71.7 %	120
Grain	Jęczmień palony	0.2 kg <i>(2.2%)</i>	55 %	985
Grain	Chocolate Malt (UK)	0.3 kg <i>(3.2%)</i>	73 %	887
Grain	Weyermann - Dehusked Carafa III	0.5 kg <i>(5.4%)</i>	70 %	1024
Grain	Płatki owsiane	1 kg <i>(10.8%)</i>	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	20 g	10 min	7 %
Boil	Columbus/Tomahawk/Zeus	60 g	60 min	14.9 %

Yeasts

Name Type	Form	Amount	Laboratory
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Cafala C 04	A 1	CI I	200	
l Safale S-04	Ale	l Slant	200 ml	l Safale
Jaiaic J-0+	AIC	Jidiit	200 1111	Jaiaic