

Uncle Stalin's People's Reserve

- Gravity **25.1 BLG**
- ABV **11.7 %**
- IBU **81**
- SRM **54.5**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **9 liter(s)**
- Trub loss **5 %**
- Size with trub loss **9.4 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **11.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.6 liter(s)**
- Total mash volume **18.2 liter(s)**

Steps

- Temp **62 C**, Time **80 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **13.6 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **80 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **2.8 liter(s)** of **76C** water or to achieve **11.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Vienna Malt	2.1 kg (46.2%)	78 %	8
Grain	Viking Pilsner malt	0.8 kg (17.6%)	82 %	4
Grain	Viking Chocolate Malt 1200	0.2 kg (4.4%)	68 %	1200
Grain	Viking Chocolate Malt 400	0.3 kg (6.6%)	68 %	400
Grain	Caramel/Crystal Malt - 150	0.15 kg (3.3%)	72 %	150
Grain	Carahell	0.3 kg (6.6%)	77 %	26
Grain	Carafa III	0.2 kg (4.4%)	70 %	1034
Grain	Rye, Flaked	0.25 kg (5.5%)	78.3 %	4
Grain	Oats, Flaked	0.25 kg (5.5%)	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Iunga	30 g	60 min	10.3 %
Boil	Lublin (Lubelski)	15 g	60 min	4 %
Boil	Oktawia	15 g	60 min	9.2 %

Aroma (end of boil)	East Kent Goldings	15 g	15 min	5.1 %
---------------------	--------------------	------	--------	-------

Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M42 New World Strong Ale	Ale	Dry	10 g	Mangrove Jack's