Milk stout

- Gravity 13.8 BLG
- ABV ----
- IBU 20
- SRM 49.8
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 0 %
- Size with trub loss 20 liter(s)
- Boil time 90 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 13.8 liter(s)
- Total mash volume 18.4 liter(s)

Steps

- Temp 69 C, Time 60 min
 Temp 72 C, Time 15 min

Mash step by step

- Heat up 13.8 liter(s) of strike water to 77.2C
- Add grains
- Keep mash 60 min at 69C
- Keep mash 15 min at 72C
- Sparge using 16.1 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.2 kg <i>(66%)</i>	85 %	8
Grain	Weyermann - Carafa III	0.1 kg <i>(2.1%)</i>	70 %	1024
Grain	Roasted Barley	0.3 kg (6.2%)	55 %	799
Grain	Barley, Flaked	0.5 kg <i>(10.3%)</i>	70 %	4
Grain	Strzegom Czekoladowy 1200	0.2 kg <i>(4.1%)</i>	68 %	1202
Grain	Cara Blonde - Castle Malting	0.3 kg <i>(6.2%)</i>	78 %	150
Sugar	Milk Sugar (Lactose)	0.25 kg <i>(5.2%)</i>	76.1 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	20 g	55 min	7 %
Boil	Challenger	10 g	10 min	7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Flavor	Oak Chips	20 g	Secondary	80 day(s)