Milk Stout

- Gravity 15.2 BLG
- ABV 6.3 %
- IBU **40**
- SRM **26.5**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 10 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.5 liter(s)
- Total mash volume 23.4 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 72 C, Time 15 min
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 16.1 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	4.5 kg <i>(70.9%)</i>	80 %	7
Sugar	laktoza	0.5 kg <i>(7.9%)</i>	80 %	
Grain	Brown Malt (British Chocolate)	0.25 kg (3.9%)	70 %	128
Grain	Weyermann - Chocolate Wheat	0.25 kg (3.9%)	74 %	788
Grain	Carafa III	0.25 kg <i>(3.9%)</i>	70 %	1034
Grain	Caramel/Crystal Malt - 30L	0.1 kg <i>(1.6%)</i>	75 %	59
Grain	Płatki owsiane	0.5 kg (7.9%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	60 min	13.9 %
Aroma (end of boil)	East Kent Goldings	25 g	5 min	5.1 %

Yeasts

Name Type	Form	Amount	Laboratory
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Wyeast - 1084 Irish	Ale	Liquid	100 ml	Wyeast Labs
Ale				