Milk Stout

- Gravity 20 BLG
- ABV 8.8 %
- IBU 29
- SRM **35.9**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.7 liter(s) / kg Mash size 28.7 liter(s)
- Total mash volume 36.4 liter(s)

Steps

- Temp **66 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 28.7 liter(s) of strike water to 72.2C
- Add grains
- Keep mash 45 min at 66C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 6.9 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Castle Malting - Pilsen	6.25 kg <i>(71.4%)</i>	80.5 %	4
Grain	Strzegom Monachijski typ I	0.5 kg <i>(5.7%)</i>	79 %	16
Grain	Carafa III	0.4 kg <i>(4.6%)</i>	70 %	1034
Grain	Jęczmień palony	0.3 kg <i>(3.4%)</i>	55 %	985
Grain	Castle Cafe Light	0.3 kg <i>(3.4%)</i>	75.5 %	250
Sugar	laktoza	1 kg (11.4%)	100 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	16.5 %
Aroma (end of boil)	Fuggles	25 g	10 min	4.5 %
Aroma (end of boil)	Fuggles	25 g	5 min	4.5 %

Yeasts

Name	Tyne	Form	Amount	Laboratory
Name	Туре	1 01 111	Aillouit	Laboratory

Danstar - Windsor Ale	Ale	Slant	100 ml	Danstar
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Extras

Туре	Name	Amount	Use for	Time
Herb	laktoza	0.5 g	Boil	10 min