

Mleczna kawa

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **30**
- SRM **41.8**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **22.4 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **16.8 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **16.6 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzński	3 kg (53.6%)	81 %	4
Grain	Strzegom Monachijski typ II	1.5 kg (26.8%)	79 %	22
Grain	Simpsons - Coffee Malt	0.4 kg (7.1%)	74 %	500
Grain	Strzegom Czekoladowy ciemny	0.25 kg (4.5%)	68 %	1100
Grain	Carafa III	0.2 kg (3.6%)	70 %	1334
Grain	Jęczmień palony	0.25 kg (4.5%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	100 ml	Fermentum Mobile

Extras

Type	Name	Amount	Use for	Time
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Flavor	Laktoza	500 g	Boil	15 min
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