

Cytrusowa czekoladka

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **13**
- SRM **28.9**
- Style **Dry Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **27.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.7 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **22.1 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **73 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **68.2C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **73C**
- Keep mash **10 min** at **78C**
- Sparge using **15.6 liter(s)** of **76C** water or to achieve **27.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3 kg (58.8%)	79 %	6
Grain	Strzegom Monachijski typ II	1 kg (19.6%)	79 %	22
Grain	Strzegom Karmel 600	0.25 kg (4.9%)	68 %	601
Grain	Strzegom Czekoladowy ciemny	0.25 kg (4.9%)	68 %	1200
Grain	Carafa III	0.1 kg (2%)	70 %	1034
Grain	Jęczmień niesłodowany	0.1 kg (2%)	75 %	2
Grain	Płatki owsiane	0.4 kg (7.8%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Whirlpool	Citra	16 g	20 min	12 %
Dry Hop	Chinook	16 g	1 day(s)	13 %
Whirlpool	Chinook	16 g	20 min	13 %

Dry Hop	Citra	16 g	1 day(s)	12 %
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Yeasts

Name	Type	Form	Amount	Laboratory
LalBrew Nottingham	Ale	Dry	11 g	Lallemand

Extras

Type	Name	Amount	Use for	Time
Other	Chłodnica	0 g	Boil	15 min

Notes

- Zacierać bez czekoladowego i palonego (Carafa). Dodać je do kroku 73 stopnie.
Jul 19, 2020, 10:19 AM