

święteczne przyprawiane (BIAB)

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **10**
- SRM **12.1**
- Style **Christmas/Winter Specialty Spiced Beer**

Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **10 %**
- Size with trub loss **14.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **17.7 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **6.5 liter(s) / kg**
- Mash size **20.2 liter(s)**
- Total mash volume **23.3 liter(s)**

Steps

- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **20.2 liter(s)** of strike water to **66.3C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Sparge using **0.6 liter(s)** of **76C** water or to achieve **17.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	1 kg (32.3%)	81 %	4
Grain	Briess - Pale Ale Malt	1 kg (32.3%)	80 %	7
Grain	Monachijski	0.6 kg (19.4%)	80 %	16
Grain	Strzegom Bursztynowy	0.4 kg (12.9%)	70 %	49
Grain	Briess - Chocolate Malt	0.1 kg (3.2%)	60 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hersbrucker	10 g	60 min	5.1 %
Boil	Tettnang	5 g	30 min	3.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
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Spice	cynamion	3 g	Boil	0 min
Spice	kolendra	3.2 g	Boil	0 min
Spice	goździki	3.2 g	Boil	0 min
Spice	ziele angielskie	3.2 g	Boil	0 min

Notes

- przyprawy dodane po zakończeniu gotowania i trzymane w woreczku przez cały czas chłodzenia. po zakończeniu chłodzenia, wyjęte razem z chmielem
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