

Christmas Ale - Świąteczne

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **35**
- SRM **18.5**
- Style **Christmas/Winter Specialty Spiced Beer**

Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.5 liter(s)**

Mash information

- Mash efficiency **71 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.3 liter(s)**
- Total mash volume **24.4 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **18.3 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **15 min** at **78C**
- Sparge using **19.3 liter(s)** of **76C** water or to achieve **31.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|-----------------|-------|-----|
| Grain | Viking Pale Ale malt | 4.1 kg (67.1%) | 80 % | 5 |
| Grain | Strzegom Monachijski typ I | 1 kg (16.4%) | 79 % | 16 |
| Grain | Strzegom Karmel 300 | 0.3 kg (4.9%) | 70 % | 299 |
| Grain | Czekoladowy | 0.15 kg (2.5%) | 60 % | 788 |
| Grain | Carafa | 0.156 kg (2.6%) | 70 % | 664 |
| Grain | Pszeniczny | 0.4 kg (6.6%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------------------|--------|--------|------------|
| Boil | Marynka | 30 g | 60 min | 10 % |
| Aroma (end of boil) | Mix szyszek z własnej hodowli | 10 g | 10 min | 8 % |
| Aroma (end of boil) | English Golding | 30 g | 10 min | 4.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------|------------------|--------|---------|--------|
| Spice | Cynamon | 35 g | Boil | 10 min |
| Spice | Anyz | 10 g | Boil | 10 min |
| Spice | Pieprz czarny | 3 g | Boil | 10 min |
| Spice | Kardamon | 5 g | Boil | 10 min |
| Spice | Ziele angielskie | 3 g | Boil | 10 min |

Notes

- 7 miejsce w Mikołajkowym KPD w Krakowie 2017.
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