

Christmas Ale

- Gravity **18.2 BLG**
- ABV **7.8 %**
- IBU **25**
- SRM **16.8**
- Style **Christmas/Winter Specialty Spiced Beer**

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 **24.6 liter(s)**
- Total mash volume **32.8 liter(s)**

Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **24.6 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **10 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **11.4 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|----------------|-------|------|
| Grain | Pilzneński Viking | 5 kg (61%) | 80 % | 4 |
| Grain | Pszeniczny Viking | 1.5 kg (18.3%) | 75 % | 5 |
| Grain | Pale Ale Viking | 0.5 kg (6.1%) | 80 % | 6 |
| Grain | Płatki owsiane | 1 kg (12.2%) | 85 % | 3 |
| Grain | Pszeniczny Czekoladowy Weyermann | 0.1 kg (1.2%) | 74 % | 1100 |
| Grain | Jęczmienny Czekoladowy Viking | 0.1 kg (1.2%) | 70 % | 1200 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------------------|--------|--------|------------|
| Boil | Marynka | 30 g | 60 min | 7.7 % |
| Boil | Hallertau Tradition | 30 g | 10 min | 7.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 23 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|----------|---------------------|--------|---------|--------|
| Spice | Cynamon | 10 g | Boil | 10 min |
| Spice | Skórka z pomarańczy | 100 g | Boil | 10 min |
| Spice | Hibiskus | 20 g | Boil | 10 min |
| Spice | Anyż | 5 g | Boil | 10 min |
| Spice | Lukrecja | 10 g | Boil | 10 min |
| Spice | Imbir | 10 g | Boil | 10 min |
| Spice | Goździki | 2 g | Boil | 10 min |
| 15 sztuk | | | | |

Notes

- Inspiracje: Jurajskie Ale Szopka,
<http://www.piwo.org/topic/3831-bozonarodzeniowe-christmas-ale-175%C2%B0blg/>.
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