

X-Mas Ale

- Gravity **18.2 BLG**
- ABV **7.8 %**
- IBU **24**
- SRM **38.9**
- Style **Christmas/Winter Specialty Spiced Beer**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **68 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.1 liter(s)**
- Total mash volume **18.8 liter(s)**

Steps

- Temp **68 C**, Time **70 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **14.1 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **5.8 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------|-----------------|--------|------|
| Grain | Viking Pilsner malt | 1.6 kg (33.2%) | 82 % | 4 |
| Grain | Viking Pale Ale malt | 1 kg (20.7%) | 80 % | 5 |
| Grain | Biscuit Malt | 0.6 kg (12.4%) | 79 % | 50 |
| Grain | Viking Wheat Malt | 0.4 kg (8.3%) | 83 % | 5 |
| Grain | Karmelowy 600 | 0.4 kg (8.3%) | 70 % | 600 |
| Grain | Płatki owsiane | 0.2 kg (4.1%) | 85 % | 3 |
| Grain | Płatki pszenne | 0.3 kg (6.2%) | 85 % | 3 |
| Grain | Weyermann Carafa Special III | 0.2 kg (4.1%) | 70 % | 1100 |
| Sugar | Milk Sugar (Lactose) | 0.125 kg (2.6%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Marynka | 10 g | 60 min | 10 % |
| Boil | Marynka | 10 g | 20 min | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-------|--------|-----------|
| Safale US-05 | Ale | Slant | 200 ml | Fermentis |
|--------------|-----|-------|--------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|-------|--------------------------------------|--------|-----------|----------|
| Other | skórka pomarańczy | 40 g | Boil | 5 min |
| Spice | cynamon 2 rurki | 4 g | Boil | 5 min |
| Spice | gałka muszkatałowa (płaska łyżeczka) | 2 g | Boil | 5 min |
| Spice | goździki 5 szt | 2 g | Boil | 2 min |
| Other | kawa Tanzania 2x filiżanka 100ml | 2 g | Secondary | 2 day(s) |
| Spice | inne | 2 g | Boil | 5 min |

Notes

- Piwo świąteczne
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