

Carrot Ale

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **12**
- SRM **13.6**
- Style **Christmas/Winter Specialty Spiced Beer**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **24 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **28.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Sparge using **16.6 liter(s)** of **76C** water or to achieve **28.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|--------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 5 kg (83.3%) | 85 % | 7 |
| Grain | Crystal II | 1 kg (16.7%) | 75 % | 165 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Fuggles | 25 g | 30 min | 4.4 % |
| Boil | Fuggles | 25 g | 10 min | 4.4 % |

Yeasts

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

Extras

| Type | Name | Amount | Use for | Time |
|-------|--------------------|--------|-----------|----------|
| Spice | cynamon | 6 g | Secondary | 3 day(s) |
| Spice | imbir korzeń tarty | 25 g | Secondary | 3 day(s) |
| Spice | goździki | 5 g | Secondary | 3 day(s) |
| Spice | gałka muszkatułowa | 4 g | Secondary | 3 day(s) |

| | | | | |
|--------|-------------------------------|--------|-----------|----------|
| Flavor | marchewka pieczona | 2000 g | Mash | 30 min |
| Flavor | marchewka pieczona | 2000 g | Secondary | 3 day(s) |
| Flavor | sok marchewkowy (opcjonalnie) | 1000 g | Secondary | 3 day(s) |

Notes

- Marchewka i sok marchewkowy na cichą tylko jeśli marchewka na zacieranie nie da wyczuwalnych aromatów.
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