

Milk stout

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **21**
- SRM **27.4**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **75 C**, Time **1 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **75C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|--------|-----|
| Grain | Viking Pale Ale malt | 2.4 kg (47.1%) | 80 % | 5 |
| Grain | Strzegom Monachijski typ I | 0.5 kg (9.8%) | 79 % | 16 |
| Grain | Strzegom Karmel 150 | 0.3 kg (5.9%) | 75 % | 150 |
| Grain | Strzegom Czekoladowy jasny | 0.3 kg (5.9%) | 68 % | 400 |
| Grain | Jęczmień palony | 0.3 kg (5.9%) | 55 % | 985 |
| Grain | Płatki owsiane | 0.3 kg (5.9%) | 60 % | 3 |
| Grain | Płatki jęczmienne | 0.3 kg (5.9%) | 75 % | 2 |
| Sugar | Milk Sugar (Lactose) | 0.7 kg (13.7%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil | Challenger | 20 g | 60 min | 7 % |
| Boil | Perle | 20 g | 10 min | 7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------|--------|---------|--------|
| Flavor | Laktoza | 700 g | Boil | 10 min |

Notes

- Ferm. burzliwa 17-20C 7 dni.
Ferm. cicha 7 dni.
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