

Milk Stout

- Gravity **15.2 BLG**
- ABV ---
- IBU **29**
- SRM **32.4**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **23 liter(s)**
- Boil time **90 min**
- Evaporation rate **8 %/h**
- Boil size **26.7 liter(s)**

Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.7 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **25.4 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **20 liter(s)** of strike water to **73.3C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **12.1 liter(s)** of **76C** water or to achieve **26.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|--------|------|
| Grain | Viking Pale Ale | 2.8 kg (46.7%) | 80 % | 5 |
| Grain | Strzegom Czekoladowy jasny | 0.2 kg (3.3%) | 68 % | 400 |
| Grain | Carafa II | 0.2 kg (3.3%) | 70 % | 812 |
| Grain | Carafa III | 0.2 kg (3.3%) | 70 % | 1034 |
| Grain | Strzegom Karmel 150 | 0.3 kg (5%) | 75 % | 150 |
| Grain | Strzegom Karmel 300 | 0.25 kg (4.2%) | 70 % | 299 |
| Grain | Weyermann Specjal W | 0.25 kg (4.2%) | 68 % | 300 |
| Grain | Monachijski | 0.5 kg (8.3%) | 80 % | 16 |
| Grain | Płatki owsiane prażone | 0.7 kg (11.7%) | 85 % | 3 |
| Sugar | Milk Sugar (Lactose) | 0.6 kg (10%) | 76.1 % | 0 |

Hops

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

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|-------------|-------------|---------------|-------------------|
| Safale S-04 | Ale | Dry | 12.78 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------------------|---------------|----------------|-------------|
| Flavor | Wiórki kokosowe prażone | 500 g | Secondary | 7 day(s) |
| Flavor | Espresso | 200 g | Secondary | 7 day(s) |
| Spice | Laska wanilii | 15 g | Secondary | 7 day(s) |