

Cynamon Milk Stout

- Gravity **17.5 BLG**
- ABV **7.5 %**
- IBU **31**
- SRM **30.3**
- 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 **85 min**
- Evaporation rate **10 %/h**
- Boil size **26.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **25.6 liter(s)**

Steps

- Temp **65 C**, Time **50 min**
- Temp **76 C**, Time **15 min**

Mash step by step

- Heat up **19.5 liter(s)** of strike water to **72C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **15 min** at **76C**
- Sparge using **12.9 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|------------------------------------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 4 kg (57.1%) | 80 % | 5 |
| Grain | Strzegom Karmel 30 | 1 kg (14.3%) | 75 % | 30 |
| Viking Malt, ale nie było w bazie. | | | | |
| Grain | Jęczmień palony | 0.3 kg (4.3%) | 55 % | 985 |
| Viking Malt, ale nie było w bazie. | | | | |
| Grain | Czekoladowy | 0.3 kg (4.3%) | 60 % | 788 |
| Viking Malt, ale nie było w bazie. | | | | |
| Adjunct | Laktoza | 0.9 kg (12.9%) | --- % | --- |
| Grain | Płatki owsiane | 0.5 kg (7.1%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------|--------|--------|------------|
| Boil | Green Bullet | 30 g | 60 min | 11 % |
| Aroma (end of boil) | Citra | 15 g | 1 min | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 500 ml | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------------|--------|---------|-------|
| Flavor | cynamon cięty | 30 g | Boil | 0 min |

Notes

- Wszyło 20l brzezki do fermentacji 20.5 BLG.
Drożdże zadane w 19C i fermentor wstawiony do piwnicy w której jest 17.5C
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