

# Konkursowy Milk Stout

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **26**
- SRM **26.7**
- Style **Sweet Stout**

## Batch size

- Expected quantity of finished beer **5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **5.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **6.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **4.2 liter(s)**
- Total mash volume **5.6 liter(s)**

## Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **1 min**

## Mash step by step

- Heat up **4.2 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **3.6 liter(s)** of **76C** water or to achieve **6.4 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount          | Yield  | EBC  |
|-------|-----------------------------|-----------------|--------|------|
| Grain | Viking Pale Ale malt        | 0.99 kg (66.4%) | 80 %   | 5    |
| Grain | Płatki owsiane              | 0.2 kg (13.4%)  | 85 %   | 3    |
| Grain | Strzegom Karmel 150         | 0.05 kg (3.4%)  | 75 %   | 150  |
| Grain | special w                   | 0.05 kg (3.4%)  | --- %  | ---  |
| Grain | Strzegom Czekoladowy ciemny | 0.05 kg (3.4%)  | 68 %   | 1200 |
| Grain | Jęczmień palony             | 0.05 kg (3.4%)  | 55 %   | 985  |
| Sugar | Milk Sugar (Lactose)        | 0.1 kg (6.7%)   | 76.1 % | 0    |

## Hops

| Use for             | Name  | Amount | Time   | Alpha acid |
|---------------------|-------|--------|--------|------------|
| Boil                | lunga | 4 g    | 60 min | 11 %       |
| Aroma (end of boil) | lunga | 4 g    | 15 min | 11 %       |

## Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 3 g    | Safale     |

## Notes

- Zacieranie tak jak FES't. Potem rozdzielona warka.  
*Jan 15, 2021, 9:10 PM*