

lager H8

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **28**
- SRM **5.5**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **17 %/h**
- Boil size **35.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **26.1 liter(s)**

Steps

- Temp **51 C**, Time **10 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **19.6 liter(s)** of strike water to **56.2C**
- Add grains
- Keep mash **10 min** at **51C**
- Keep mash **45 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **22.6 liter(s)** of **76C** water or to achieve **35.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|-----------------|-------|-----|
| Grain | Pilzneński | 4.25 kg (65.2%) | 81 % | 4 |
| Grain | Karamel Pils Steinbach | 0.21 kg (3.2%) | 79 % | 6 |
| Grain | Karmelowy Jasny 30EBC | 0.31 kg (4.8%) | 75 % | 30 |
| Grain | monachijski jasny viking | 1.75 kg (26.8%) | --- % | 16 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil | saaz late | 70 g | 60 min | 3.76 % |
| Boil | Lublin (Lubelski) | 30 g | 20 min | 4 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|-------|----------------|--------|---------|--------|
| Spice | mech irlandzki | 10 g | Boil | 10 min |