

Lagier górny

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **32**
- SRM **3.6**
- Style **Premium American Lager**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **67 C**, Time **40 min**
- Temp **72 C**, Time **25 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **40 min** at **67C**
- Keep mash **25 min** at **72C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------|-------------|-------|-----|
| Grain | Pilznieński | 5 kg (100%) | 81 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil | Lunga | 25 g | 60 min | 8.5 % |
| Boil | Fuggles | 20 g | 20 min | 5.5 % |
| Aroma (end of boil) | Fuggles | 20 g | 5 min | 5.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Notes

- Temperatura otoczenia 11/12stp us05
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