

German pils v1

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **37**
- SRM **3**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **27.7 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.6 liter(s)**
- Total mash volume **23.9 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **18.6 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|---------------|-------|-----|
| Grain | Weyermann - Pilsner Malt | 5 kg (94.3%) | 81 % | 2.5 |
| Grain | Weyermann - Carapils | 0.3 kg (5.7%) | 78 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|-----------------------|--------|--------|------------|
| Boil | Hallertau Mittelfruh | 60 g | 60 min | 3 % |
| Boil | lunga | 10 g | 60 min | 11 % |
| Whirlpool | Hallertau Mittelfruh | 30 g | 15 min | 3 % |
| Whirlpool | Hellertau Hersbrucker | 60 g | 15 min | 2.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------|-------|-------|--------|------------|
| Saflager W 34/70 | Lager | Slant | 250 ml | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

| | | | | |
|-------------|-----------------|-------|------|--------|
| Fining | whirlfloc | 1.5 g | Boil | 15 min |
| Fining | łuska ryżowa | 150 g | Mash | 80 min |
| Water Agent | gips piwowarski | 2 g | Boil | 90 min |

Notes

- pH zacieru 5.1-5.2

Burzliwa: 14 dni 8 - 12 °C > na ostatnie 2 dni temp 14°C

Cicha: 21 dni 0 °C

Refermentacja 16°C do odpowiedniego nagazowania

Nov 11, 2018, 2:05 PM