

# Koźlaczek

- Gravity **18.2 BLG**
- ABV **7.8 %**
- IBU **21**
- SRM **16.4**
- Style **Traditional Bock**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **19.9 liter(s)**

## Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **2.7 liter(s) / kg**
- Mash size **14.5 liter(s)**
- Total mash volume **19.8 liter(s)**

## Steps

- Temp **50 C**, Time **1 min**
- Temp **62 C**, Time **30 min**
- Temp **100 C**, Time **20 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **14.5 liter(s)** of strike water to **55.5C**
- Add grains
- Keep mash **1 min** at **50C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **78C**
- Keep mash **20 min** at **100C**
- Sparge using **10.8 liter(s)** of **76C** water or to achieve **19.9 liter(s)** of wort

## Fermentables

| Type  | Name                  | Amount          | Yield | EBC |
|-------|-----------------------|-----------------|-------|-----|
| Grain | Pilzneński            | 2.3 kg (42.9%)  | 81 %  | 4   |
| Grain | Monachijski           | 1.44 kg (26.9%) | 80 %  | 16  |
| Grain | Strzegom Wiedeński    | 1 kg (18.7%)    | 79 %  | 10  |
| Grain | Weyermann - Caraamber | 0.25 kg (4.7%)  | 75 %  | 65  |
| Grain | Viking melanoidynowy  | 0.25 kg (4.7%)  | 75 %  | 60  |
| Grain | Weyermann - Carafa II | 0.12 kg (2.2%)  | 70 %  | 837 |

## Hops

| Use for | Name   | Amount | Time   | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil    | Magnum | 15 g   | 60 min | 12 %       |

## Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|                  |       |     |      |           |
|------------------|-------|-----|------|-----------|
| Saflager W 34/70 | Lager | Dry | 23 g | Fermentis |
|------------------|-------|-----|------|-----------|

## Notes

- Dekokcja jednowarowa: odebrać 1/3 zacieru  
*Sep 22, 2020, 11:37 PM*