

Koziołek Matolek

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **25**
- SRM **14.1**
- Style **Traditional Bock**

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 **15 %/h**
- Boil size **34.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.1 liter(s) / kg**
- Mash size **32 liter(s)**
- Total mash volume **39.8 liter(s)**

Steps

- Temp **50 C**, Time **20 min**
- Temp **66 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **32 liter(s)** of strike water to **53.7C**
- Add grains
- Keep mash **20 min** at **50C**
- Keep mash **30 min** at **66C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **10.3 liter(s)** of **76C** water or to achieve **34.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|----------------|-------|-----|
| Grain | Mep Pilsner | 3 kg (38.5%) | 81 % | 4 |
| Grain | Pale Ale - Crisp | 2.8 kg (35.9%) | 82 % | 4.5 |
| Grain | Pale Ale Clear Choice - Crisp | 1 kg (12.8%) | 80 % | 6 |
| Grain | Caraaroma - Weyermann | 0.4 kg (5.1%) | 82 % | 350 |
| Grain | Słód Caramunich Typ II Weyermann | 0.6 kg (7.7%) | 75 % | 120 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Marynka | 20 g | 60 min | 9.1 % |
| Boil | Saaz | 23 g | 30 min | 5.5 % |
| Boil | Saaz | 25 g | 10 min | 5.5 % |

Yeasts

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

| | | | | |
|--------|-------|-------|--------|-----|
| W34/70 | Lager | Slant | 400 ml | --- |
|--------|-------|-------|--------|-----|

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------|--------|---------|--------|
| Fining | whirlfloc | 1.25 g | Boil | 10 min |

Notes

- Zacieranie w worku (BIAB).
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