

# Czarny ale bez

- Gravity **14.4 BLG**
- ABV ---
- IBU **29**
- SRM **14.2**
- Style **Spice, Herb, or Vegetable Beer**

## Batch size

- Expected quantity of finished beer **28 liter(s)**
- Trub loss **5 %**
- Size with trub loss **29.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **35.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **24.5 liter(s)**
- Total mash volume **31.5 liter(s)**

## Steps

- Temp **52 C**, Time **15 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **30 min**
- Temp **75 C**, Time **5 min**

## Mash step by step

- Heat up **24.5 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **15 min** at **52C**
- Keep mash **45 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **75C**
- Sparge using **17.9 liter(s)** of **76C** water or to achieve **35.4 liter(s)** of wort

## Fermentables

| Type           | Name                        | Amount        | Yield | EBC |
|----------------|-----------------------------|---------------|-------|-----|
| Grain          | Strzegom Monachijski typ II | 7 kg (93.3%)  | 79 %  | 22  |
| Liquid Extract | Honey                       | 0.5 kg (6.7%) | 75 %  | 2   |

## Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Marynka           | 20 g   | 60 min | 10 %       |
| Boil    | Lublin (Lubelski) | 50 g   | 60 min | 2 %        |
| Boil    | Lublin (Lubelski) | 20 g   | 5 min  | 4 %        |
| Boil    | Sybilla           | 20 g   | 10 min | 3.5 %      |
| Boil    | Lublin (Lubelski) | 40 g   | 5 min  | 2 %        |

## Yeasts

| Name                     | Type | Form | Amount | Laboratory |
|--------------------------|------|------|--------|------------|
| Gozdawa Pure Ale Yeast 7 | Ale  | Dry  | 10 g   | ---        |

## Extras

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name                       | Amount | Use for | Time  |
|------|----------------------------|--------|---------|-------|
| Herb | kwiat czarnego bzu<br>susz | 300 g  | Boil    | 5 min |

## Notes

- Przepis testowy  
*Feb 22, 2016, 4:42 PM*