

# Berliner weisse z czarną porzeczką EXP. no 1

- Gravity **9.3 BLG**
- ABV **3.6 %**
- IBU **10**
- SRM **3**
- Style **Berliner Weisse**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6 liter(s)**
- Total mash volume **8 liter(s)**

## Steps

- Temp **50 C**, Time **10 min**
- Temp **64 C**, Time **45 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **6 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **45 min** at **64C**
- Keep mash **5 min** at **78C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

| Type    | Name                    | Amount          | Yield  | EBC |
|---------|-------------------------|-----------------|--------|-----|
| Grain   | Słód pszeniczny         | 1 kg (32.8%)    | 82 %   | 5   |
| Grain   | Pilznieński             | 1 kg (32.8%)    | 80.5 % | 4   |
| Adjunct | sok z czarnej porzeczki | 0.6 kg (19.7%)  | 12 %   | --- |
| Adjunct | czane porzeczki         | 0.45 kg (14.8%) | 7 %    | --- |

## Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | lunga | 5 g    | 45 min | 11 %       |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 5 g    | Fermentis  |

## Extras

| Type   | Name                              | Amount | Use for | Time     |
|--------|-----------------------------------|--------|---------|----------|
| Flavor | sok z owocami z czarnej porzeczki | 600 g  | Primary | 7 day(s) |

|        |                         |       |         |          |
|--------|-------------------------|-------|---------|----------|
| Flavor | owoce czarnej porzeczki | 450 g | Primary | 7 day(s) |
|--------|-------------------------|-------|---------|----------|