

# Berliner z malinami (kwasiór)

- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **9**
- SRM **3.2**
- Style **Berliner Weisse**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

## Steps

- Temp **62 C**, Time **15 min**
- Temp **68 C**, Time **45 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **12 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **15 min** at **62C**
- Keep mash **45 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name       | Amount     | Yield | EBC |
|-------|------------|------------|-------|-----|
| Grain | Pilzneński | 2 kg (50%) | 81 %  | 4   |
| Grain | Pszeniczny | 2 kg (50%) | 85 %  | 4   |

## Hops

| Use for | Name       | Amount | Time   | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil    | Cascade PL | 30 g   | 15 min | 5.2 %      |

## Yeasts

| Name  | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| Us-05 | Ale  | Dry  | 11.5 g | Safale     |

## Extras

| Type   | Name   | Amount | Use for   | Time     |
|--------|--------|--------|-----------|----------|
| Flavor | Maliny | 1300 g | Secondary | 7 day(s) |

## Notes

- Zakwaszanie (jedno z trzech opcji):  
Sanprobi IBS

Swanson L.Plantarum. (Lactobacillus Plantarum 20-35C)  
Dicoflor 60 (6mld CFU na kapsułkę)  
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