

## 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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