

# Kwaśna mandarynka

- Gravity **7.6 BLG**
- ABV **2.9 %**
- IBU **7**
- SRM **2.6**
- 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 **3.5 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **13.5 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **1 min** at **78C**
- Sparge using **17.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód Pilsner® 2,5-4,5 EBC Weyermann	2 kg (66.7%)	80 %	4
Grain	Weyermann pszeniczny jasny	1 kg (33.3%)	80 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	30 min	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis US-05	Ale	Dry	11.5 g	Fermentis

## Notes

- 2,5ml kwasu mlekowego 80% na butelke  
na cichą po przelaniu dać sok z mandarynki 3l  
w miare wysokie nagazowanie dać  
wysładzać w wysokiej temperaturze by nie było dms  
chłodzenie w wannie, bo chłodnicy nadal brak  
*Jul 8, 2023, 9:48 AM*