

## #213 Frau Ribbentrop powraca

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **10**
- SRM **3.2**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **22.7 liter(s)**
- Trub loss **7 %**
- Size with trub loss **24.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **6 %/h**
- Boil size **26.2 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **2.85 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18.9 liter(s)**

### Steps

- Temp **45 C**, Time **10 min**
- Temp **66 C**, Time **75 min**
- Temp **78 C**, Time **1 min**

### Mash step by step

- Heat up **14 liter(s)** of strike water to **49.4C**
- Add grains
- Keep mash **10 min** at **45C**
- Keep mash **75 min** at **66C**
- Keep mash **1 min** at **78C**
- Sparge using **17.1 liter(s)** of **76C** water or to achieve **26.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking pilzneński	3 kg (61.2%)	82 %	3.5
Grain	Pszenica niesłodowana	1.65 kg (33.7%)	75 %	3
Grain	Płatki owsiane	0.25 kg (5.1%)	60 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Mittelfruh DE 2022 granulát	25 g	70 min	3.1 %
Aroma (end of boil)	Hallertau Mittelfruh DE 2022 granulát	10 g	10 min	3.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM23 Magiczny ogród	Wheat	Liquid	40 ml	Fermentum Mobile

### Extras

Type	Name	Amount	Use for	Time
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Flavor	Kwiat gorzkiej pomarańczy	50 g	Boil	1 min
Flavor	Kolendra	30 g	Boil	1 min
Flavor	Skórka słodkiej pomarańczy	20 g	Boil	1 min