

Paulaner

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **13**
- SRM **4.1**
- Style **Weizen/Weissbier**

Batch size

- Expected quantity of finished beer **32 liter(s)**
- Trub loss **5 %**
- Size with trub loss **33.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **40.5 liter(s)**

Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **25.2 liter(s)**
- Total mash volume **32.4 liter(s)**

Steps

- Temp **45 C**, Time **20 min**
- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **25.2 liter(s)** of strike water to **48.6C**
- Add grains
- Keep mash **20 min** at **45C**
- Keep mash **50 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **22.5 liter(s)** of **76C** water or to achieve **40.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pszeniczny	4 kg (55.6%)	81 %	6
Grain	Strzegom Pilzneński	3 kg (41.7%)	80 %	4
Grain	Carahell	0.2 kg (2.8%)	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zula	10 g	70 min	8.3 %
Boil	Citra	20 g	10 min	12 %
Boil	Citra	10 g	1 min	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	30 ml	---