

the best

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **26**
- SRM **4.7**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **33.5 liter(s)**

Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **4.8 liter(s) / kg**
- Mash size **33.6 liter(s)**
- Total mash volume **40.6 liter(s)**

Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **33.6 liter(s)** of strike water to **67.5C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **6.9 liter(s)** of **76C** water or to achieve **33.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Żytni	3.5 kg (50%)	85 %	8
Grain	Pilznieński	3.5 kg (50%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	25 g	20 min	12 %
Boil	Citra	25 g	10 min	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Fermentis