

American wheat

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **17**
- SRM **3.8**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **44 C**, Time **20 min**
- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **48C**
- Add grains
- Keep mash **20 min** at **44C**
- Keep mash **45 min** at **63C**
- Keep mash **20 min** at **72C**
- Sparge using **19.1 liter(s)** of **76C** water or to achieve **31.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	1.5 kg (25%)	85 %	4
Grain	Pilznieński	2.5 kg (41.7%)	81 %	4
Grain	Viking Pale Ale malt	2 kg (33.3%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	10 g	60 min	12 %
Boil	Cascade	10 g	20 min	7 %
Aroma (end of boil)	Simcoe	10 g	5 min	13.2 %
Whirlpool	Simcoe	20 g	0 min	13.2 %
Whirlpool	Cascade	20 g	0 min	7 %
Whirlpool	Citra	20 g	0 min	12 %
Dry Hop	Citra	50 g	3 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	5.75 g	Safale