

# Rye Wine

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- Gravity **27 BLG**
- ABV **12.9 %**
- IBU **62**
- SRM **7.9**
- Style **American Wheat or Rye Beer**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.1 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **21.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **25.2 liter(s)**
- Total mash volume **33.6 liter(s)**

## Steps

- Temp **66 C**, Time **75 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **25.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **4.3 liter(s)** of **76C** water or to achieve **21.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (47.6%)	80 %	5
Grain	Pilzneński	1 kg (11.9%)	81 %	4
Grain	Żytni	3.4 kg (40.5%)	85 %	8

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	10 %
Aroma (end of boil)	lunga	40 g	20 min	11 %
Dry Hop	Mosaic	30 g	4 day(s)	10 %
Dry Hop	Simcoe	30 g	4 day(s)	13.2 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM26 Belgijskie Pagórki	Ale	Liquid	20 ml	Fermentum Mobile