

Ruda Maryńska

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **40**
- SRM **6.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.1 liter(s)**
- Total mash volume **18.8 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **70 C**, Time **20 min**
- Temp **76.8 C**, Time **10 min**

Mash step by step

- Heat up **14.1 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **70C**
- Keep mash **10 min** at **76.8C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **27.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Munich Malt	3.7 kg (78.7%)	78 %	15
Grain	Strzegom Pilzniejszy	1 kg (21.3%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	33 g	60 min	9.5 %
Aroma (end of boil)	Dr Rudi	25 g	5 min	11.9 %
Whirlpool	Dr Rudi	25 g	5 min	11.9 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	11.5 g	Fermentis