

Wesele Magdy i Damiana

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **20**
- SRM **6.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **15 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 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 **68 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (75%)	80 %	5
Grain	Pszeniczny	0.5 kg (8.3%)	85 %	4
Grain	Słód Cookie Viking Malt	1 kg (16.7%)	--- %	40

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Motueka	20 g	30 min	7 %
Boil	Oktawia	40 g	10 min	7.1 %
Aroma (end of boil)	Oktawia	20 g	0 min	7.1 %
Dry Hop	Motueka	10 g	7 day(s)	7 %
Dry Hop	Vermelho	30 g	7 day(s)	9.1 %
Dry Hop	Oktawia	40 g	7 day(s)	7.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale BE-134	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Water Agent	Gips piwowarski	5 g	Mash	---
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