

Cowgirl

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **24**
- SRM **3.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **29.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.3 liter(s)**
- Total mash volume **24.4 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **4 min**

Mash step by step

- Heat up **18.3 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **4 min** at **78C**
- Sparge using **17.6 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	6.1 kg (100%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	13.5 %
Boil	Centennial	20 g	10 min	10.5 %
Boil	Cascade	30 g	5 min	6 %
Boil	Centennial	30 g	1 min	10 %
Dry Hop	Centennial	30 g	5 day(s)	10.5 %
Dry Hop	Mosaic	30 g	3 day(s)	10 %
Dry Hop	Citra	60 g	5 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	160 ml	---