

American IPA

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **70**
- SRM **3.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.4 liter(s)**
- Total mash volume **15.2 liter(s)**

Steps

- Temp **63 C**, Time **100 min**
- Temp **72 C**, Time **45 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **11.4 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **100 min** at **63C**
- Keep mash **45 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **11.4 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg (65.8%)	80 %	5
Grain	Płatki owsiane	0.8 kg (21.1%)	85 %	3
Grain	Pszeniczny	0.5 kg (13.2%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %
Aroma (end of boil)	Hallertau Blanc	20 g	10 min	7.4 %
Aroma (end of boil)	Citra	20 g	10 min	12 %
Whirlpool	Citra	20 g	10 min	12 %
Whirlpool	Hallertau Blanc	20 g	10 min	11 %
Whirlpool	Eureka!	18 g	10 min	18 %

Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	10 g	Danstar