

Warka 9 Tesknie za latem

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **51**
- SRM **4.2**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **30.3 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **24.5 liter(s)**
- Total mash volume **31.5 liter(s)**

Steps

- Temp **62 C**, Time **20 min**
- Temp **70 C**, Time **50 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **24.5 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **20 min** at **62C**
- Keep mash **50 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **12.8 liter(s)** of **76C** water or to achieve **30.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	3 kg (42.9%)	82 %	4
Grain	Viking Pale Ale malt	3 kg (42.9%)	80 %	5
Grain	Viking sweet malt	1 kg (14.3%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	60 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	20 g	15 min	15.5 %
Boil	Simcoe	30 g	2 min	13.2 %
Aroma (end of boil)	Simcoe	20 g	0 min	13.2 %
Aroma (end of boil)	Crystal	50 g	0 min	4.5 %
Dry Hop	Crystal	50 g	7 day(s)	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	13 g	DubPunks

Extras

Type	Name	Amount	Use for	Time
Flavor	Sok Owocowy	3000 g	Primary	18 day(s)
Flavor	Truskawka	500 g	Secondary	7 day(s)
Flavor	Malina	500 g	Secondary	7 day(s)