

Milkshake APA

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **54**
- SRM **3.9**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.9 liter(s)**
- Total mash volume **17.2 liter(s)**

Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **12.9 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg (58.1%)	81 %	4
Grain	Viking Pale Ale malt	1.5 kg (34.9%)	80 %	5
Grain	Caramel/Crystal Malt - 10L	0.3 kg (7%)	75 %	20

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	70 min	13.5 %
Boil	Mandarina Bavaria	20 g	15 min	10 %
Boil	Mandarina Bavaria	40 g	10 min	10 %
Boil	Mandarina Bavaria	40 g	5 min	10 %

Yeasts

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

Extras

Type	Name	Amount	Use for	Time
Other	laktoza	520 g	Boil	15 min

Notes

- Warka podzielona na pół
I część dodano 1,2 kg truskawek
II część dodano 0,8 kg malin
owoce mrożone na cichą fermentację 12 dni
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