Milkshake IPA

- Gravity 15.4 BLG
- ABV 6.5 %
- IBU **42**
- SRM 4.6
- Style American IPA

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 19.8 liter(s)
- Boil time 65 min
- Evaporation rate 10 %/h
- Boil size 25.9 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 2.7 liter(s) / kg
- Mash size 14.9 liter(s)
- Total mash volume 20.4 liter(s)

Steps

- Temp **62 C**, Time **80 min** Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up 14.9 liter(s) of strike water to 69.8C
- Add grains
- Keep mash 80 min at 62C
- Keep mash 15 min at 72C
- Keep mash 1 min at 76C
- Sparge using 16.5 liter(s) of 76C water or to achieve 25.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	3.5 kg <i>(58.2%)</i>	81 %	5
Grain	Pszeniczny	1 kg (16.6%)	85 %	4
Grain	Oats, Flaked	0.75 kg <i>(12.5%)</i>	80 %	2
Grain	Karmelowy Jasny 30EBC	0.25 kg <i>(4.2%)</i>	75 %	30
Sugar	Milk Sugar (Lactose)	0.51 kg <i>(8.5%)</i>	76.1 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	15 g	60 min	8.8 %
Boil	Fuggles	10 g	60 min	4.5 %
Boil	Mosaic	10 g	45 min	12 %
Boil	Fuggles	10 g	45 min	4.5 %
Boil	Mosaic	10 g	15 min	12 %
Boil	Amarillo	10 g	15 min	8.8 %
Boil	Amarillo	25 g	0 min	8.8 %
Boil	Mosaic	30 g	0 min	12 %

Yeasts

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

Extras

Туре	Name	Amount	Use for	Time
Flavor	Wanilia (2 laski w whisky)	10 g	Secondary	10 day(s)
Flavor	Truskawki mrożone	900 g	Secondary	10 day(s)