MilkShake IPA

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **40**
- SRM **6.2**

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 13.2 liter(s)
- Boil time 75 min
- Evaporation rate 10 %/h
- Boil size 16.2 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 8 liter(s)
- Total mash volume 10.6 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 72 C, Time 15 min
 Temp 76 C, Time 15 min

Mash step by step

- Heat up 8 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 15 min at 72C Keep mash 15 min at 76C
- Sparge using 10.9 liter(s) of 76C water or to achieve 16.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1 kg <i>(34.5%)</i>	80 %	5
Grain	Viking Wheat Malt	0.1 kg <i>(3.4%)</i>	83 %	5
Grain	Viking Malt - cookie	0.35 kg <i>(12.1%)</i>	72 %	25
Grain	Viking Malt - golden ale	1 kg <i>(34.5%)</i>	75 %	12
Grain	Viking Malt - caramel sweet	0.1 kg <i>(3.4%)</i>	73 %	62
Grain	Oats, Flaked	0.1 kg <i>(3.4%)</i>	80 %	2
Sugar	Milk Sugar (Lactose)	0.25 kg <i>(8.6%)</i>	76.1 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	12.5 g	60 min	15.5 %
Dry Hop	Columbus/Tomahawk/Zeus	25 g		15.5 %
Dry Hop	Chinook	25 g		13 %
Boil	Lublin (Lubelski)	12.5 g	10 min	4 %
Boil	Kent Goldings	12.5 g	5 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	5.5 g	Fermentis