milkshake

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **53**
- SRM 4.2
- 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 3.1 liter(s) / kg
- Mash size 14 liter(s)
- Total mash volume 18.5 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 77 C, Time 10 min

Mash step by step

- Heat up 14 liter(s) of strike water to 75.7C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 10 min at 77C
- Sparge using 15.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) Bel	4 kg (88.9%)	80 %	6
Grain	Pszeniczny	0.5 kg (11.1%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	15 g	60 min	12 %
Boil	Mosaic	20 g	60 min	10 %
Aroma (end of boil)	Citra	35 g	5 min	12 %
Whirlpool	Mosaic	30 g	0 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	10 g	Mangrove Jack's

Extras

Туре	Name	Amount	Use for	Time
Flavor	Kiwi	1500 g	Secondary	5 day(s)
Other	laktoza	750 g	Boil	0 min