ARES Słodko-Gorzkie Milkshake !PA

- Gravity 14.3 BLG
- ABV **5.9** %
- IBU **52**
- SRM **16.2**
- Style English IPA

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 5 %/h
- Boil size 23.1 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 20.4 liter(s)
- Total mash volume 25.5 liter(s)

Steps

- Temp **65 C**, Time **30 min** Temp **75 C**, Time **45 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 20.4 liter(s) of strike water to 70.6C
- Add grains
- Keep mash 30 min at 65C
- Keep mash 45 min at 75C
- Keep mash 10 min at 78C
- Sparge using 7.8 liter(s) of 76C water or to achieve 23.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	ARES Słodko-Gorzkie Milkshake !PA	5.1 kg <i>(87.9%)</i>	80 %	40
Adjunct	Płatki Błyskawiczne	0.2 kg <i>(3.4%)</i>	1 %	20
Adjunct	Laktoza	0.5 kg (8.6%)	1 %	20

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	25 g	60 min	15.5 %
Boil	Lublin (Lubelski)	50 g	10 min	4 %
Aroma (end of boil)	Kent Goldings	25 g	5 min	5.5 %
Dry Hop	Columbus/Tomahawk/Zeus	25 g	2 day(s)	15.5 %
Dry Hop	Chinook	25 g	2 day(s)	13 %

Yeasts

Name	Туре	Form	Amount	Laboratory
NEW WORLD STRONG ALE M42 Mangrove Jack's	Ale	Dry	10 g	

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirflock	5 g	Boil	5 min