Blak pIPA

- · Gravity 15 BLG
- ABV ----
- IBU **67**
- SRM **32**
- Style Black 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 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16 liter(s)
- Total mash volume 21.4 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 72 C, Time 10 min
- Temp 78 C, Time 2 min

Mash step by step

- Heat up 16 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 10 min at 72C
- Keep mash 2 min at 78C
- Sparge using 14.7 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (73.4%)	81 %	4
Grain	Carahell	0.25 kg <i>(4.6%)</i>	77 %	26
Grain	kawowy	0.5 kg (9.2%)	74 %	250
Grain	Carafa III	0.3 kg <i>(5.5%)</i>	70 %	1034
Grain	Caraaroma	0.3 kg <i>(5.5%)</i>	78 %	400
Sugar	Candi Sugar, Clear	0.1 kg (1.8%)	100 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Bravo	25 g	60 min	15.5 %
Boil	Willamette	25 g	25 min	5 %
Boil	Amarillo	10 g	25 min	9.5 %
Boil	Amarillo	10 g	10 min	9.5 %
Boil	Willamette	20 g	10 min	5 %

Yeasts

Name Type	Form	Amount	Laboratory
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Mangrove Jack's M42 New World	Ale	Dry	10 g	
Strong Ale				