Brut'al 2.0

- Gravity 13.3 BLG
- ABV **5.5** %
- IBU **11**
- SRM **3.4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 11 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 13.2 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 7.9 liter(s)
- Total mash volume 10.1 liter(s)

Steps

- Temp **62 C**, Time **60 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 7.9 liter(s) of strike water to 68C
- Add grains
- Keep mash 60 min at 62C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 7.6 liter(s) of 76C water or to achieve 13.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński IREKS	2 kg (80%)	81 %	4
Grain	Płatki ryżowe	0.25 kg <i>(10%)</i>	78.3 %	2
Sugar	Cukier biały	0.25 kg <i>(10%)</i>	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Mosaic	15 g	10 min	10 %
Aroma (end of boil)	Galaxy	15 g	0 min	15 %
Dry Hop	Lubelski Polish Hops 2018	17 g	5 day(s)	2.6 %
Dry Hop	Galaxy	35 g	3 day(s)	15 %
Dry Hop	Mosaic	38 g	3 day(s)	10 %

Yeasts

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

Extras

Туре	Name	Amount	Use for	Time
Other	Glukoamylaza	2 g	Primary	20 day(s)