Ella

- Gravity 12.9 BLG
- ABV **5.2** %
- IBU **33**
- SRM **5.8**
- Style English IPA

Batch size

- Expected quantity of finished beer 51 liter(s)
- Trub loss 5 %
- Size with trub loss 53.5 liter(s)
- · Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 65.4 liter(s)

Mash information

- Mash efficiency 78 %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 31.5 liter(s)
- Total mash volume 44.1 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 72 C, Time 10 min

Mash step by step

- Heat up 31.5 liter(s) of strike water to 75.2C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 10 min at 72C
- Sparge using 46.5 liter(s) of 76C water or to achieve 65.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	11 kg <i>(87.3%)</i>	80 %	7
Grain	Żytni	1 kg (7.9%)	85 %	8
Grain	Biscuit Malt	0.3 kg <i>(2.4%)</i>	79 %	45
Grain	Caramel/Crystal Malt - 30L	0.3 kg <i>(2.4%)</i>	75 %	59

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Ella (AUS)	60 g	30 min	16.7 %
Dry Hop	Ella (AUS)	40 g	3 day(s)	16.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP007 - Dry English Ale Yeast	Ale	Liquid	600 ml	White Labs
Gęstwa				

Extras

Type Name	Amount	Use for	Time	
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Water Agent	Gips	5 g	Mash	50 min
Water Agent	Lactol	4 g	Mash	