Little Ala best bitter

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **32**
- SRM **10.5**
- Style Special/Best/Premium Bitter

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 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

Steps

- Temp **53 C**, Time **10 min** Temp **63 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up 12 liter(s) of strike water to 58.5C
- Add grains
- Keep mash 10 min at 53C
- Keep mash 45 min at 63C
- Keep mash 15 min at 72C
- Keep mash 15 min at 78C
- Sparge using 17.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg <i>(87.5%)</i>	80 %	6
Grain	Strzegom Karmelowy 200	0.5 kg <i>(12.5%)</i>	75 %	200

Hops

Use for	Name	Amount	Time	Alpha acid
Whirlpool	Amarillo	30 g	1 min	8.9 %
Aroma (end of boil)	Amarillo	15 g	5 min	8.9 %
Aroma (end of boil)	Nugget	15 g	15 min	12.8 %
Boil	Columbus/Tomahawk/Zeus	10 g	45 min	15.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	

Extras

Туре	Name	Amount	Use for	Time
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