LITE RYE APA

- Gravity 9 BLG
- ABV 3.5 %
- IBU **36**
- SRM 3.1
- Style American Wheat or Rye Beer

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.3 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 14 liter(s)
- Total mash volume 17.5 liter(s)

Steps

- Temp **64 C**, Time **20 min** Temp **72 C**, Time **50 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 14 liter(s) of strike water to 69.5C
- Add grains
- Keep mash 20 min at 64C
- Keep mash 50 min at 72C
- Keep mash 5 min at 78C
- Sparge using 16.8 liter(s) of 76C water or to achieve 27.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg <i>(57.1%)</i>	81 %	4
Grain	Żytni	1 kg (28.6%)	85 %	8
Grain	Carapils	0.5 kg <i>(14.3%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	BRU-1	10 g	60 min	15.7 %
Boil	BRU-1	10 g	12 min	15.7 %
Boil	BRU-1	10 g	8 min	15.7 %
Boil	BRU-1	10 g	4 min	15.7 %
Boil	BRU-1	10 g	2 min	15.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale