Altbier

- Gravity 12.6 BLG
- ABV ----
- IBU **51**
- SRM **11.4**
- Style Düsseldorf Altbier

Batch size

- Expected quantity of finished beer 12.5 liter(s)
- Trub loss 4 %
- Size with trub loss 13 liter(s)
- · Boil time 70 min
- Evaporation rate 20 %/h
- Boil size 16 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 9.4 liter(s)
- Total mash volume 12 liter(s)

Steps

- Temp 65 C, Time 40 min Temp 72 C, Time 20 min
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 9.4 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 40 min at 65C
- Keep mash 20 min at 72C
- Keep mash 10 min at 76C
- Sparge using 9.3 liter(s) of 76C water or to achieve 16 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	1.5 kg <i>(56.1%)</i>	80 %	4
Grain	Monachijski	1 kg <i>(37.4%)</i>	80 %	16
Grain	Crystal 150	0.15 kg <i>(5.6%)</i>	75 %	150
Grain	Carafa III	0.025 kg <i>(0.9%)</i>	70 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	20 g	60 min	11 %
Boil	Hallertau	20 g	15 min	4.5 %
Aroma (end of boil)	Hallertau	20 g	0 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-33	Ale	Slant	60 ml	Fermentis

Extras

Type	Name	Amount	Use for	Time
Type		/ o	050.0.	

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Final and	Maab irland-ki	4	Dail	15 min
Fining	l Mech irlandzki	l 4 a	Boil	1 15 MIN
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