7B. Altbier

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **41**
- SRM **14.5**
- Style Düsseldorf Altbier

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 3 %
- Size with trub loss 15.4 liter(s)
- · Boil time 90 min
- Evaporation rate 7 %/h
- Boil size 17.9 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4.05 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 18.7 liter(s)

Steps

- Temp 53 C, Time 10 min
 Temp 63 C, Time 45 min
 Temp 73 C, Time 15 min
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 15 liter(s) of strike water to 57.1C
- Add grains
- Keep mash 10 min at 53C
- Keep mash 45 min at 63C
- Keep mash 15 min at 73C
- Keep mash 5 min at 76C
- Sparge using 6.6 liter(s) of 76C water or to achieve 17.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.4 kg <i>(64.9%)</i>	81 %	4
Grain	Strzegom Monachijski typ II	1 kg <i>(</i> 27% <i>)</i>	79 %	22
Grain	Special x	0.3 kg (8.1%)	70 %	350

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	19 g	60 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Lutra	Ale	Dry	10 g	

Extras

Туре	Name	Amount	Use for	Time
Water Agent	CaCO3	2 g	Mash	60 min
Water Agent	CaCl2	2 g	Mash	60 min

Notes

• 12 dni 18C 7 dni 2C Nov 3, 2022, 7:12 PM