Altbier

- Gravity 12.1 BLG
- ABV ---
- IBU **37**
- SRM **10.8**
- Style Düsseldorf Altbier

Batch size

- Expected quantity of finished beer 31 liter(s)
- Trub loss 5 %
- Size with trub loss 32.5 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 40.9 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 24.2 liter(s)
- Total mash volume 30.3 liter(s)

Steps

- Temp 38 C, Time 0 min
 Temp 66 C, Time 90 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 24.2 liter(s) of strike water to 40.3C
- Add grains
- Keep mash 0 min at 38C
- Keep mash 90 min at 66C
- Keep mash 10 min at 78C
- Sparge using 22.8 liter(s) of 76C water or to achieve 40.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Monachijski	5.5 kg <i>(90.9%)</i>	80 %	16
Grain	Caramunich® typ I	0.5 kg <i>(8.3%)</i>	73 %	80
Grain	Weyermann - Dehusked Carafa II	0.05 kg <i>(0.8%)</i>	70 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Magnum	20 g	100 min	13.5 %
Boil	Hallertau	30 g	60 min	4.5 %
Boil	Hallertau	20 g	15 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP011 - European Ale Yeast	Ale	Liquid	125 ml	White Labs