LEM | Altbier

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **15**
- SRM **12.1**
- Style Northern German Altbier

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 19.4 liter(s)
- · Boil time 70 min
- Evaporation rate 25 %/h
- Boil size 26.6 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 18.8 liter(s)
- Total mash volume 23.5 liter(s)

Steps

- Temp **53 C**, Time **15 min** Temp **63 C**, Time **30 min** Temp **73 C**, Time **30 min**
- Temp **79 C**, Time **0 min**

Mash step by step

- Heat up 18.8 liter(s) of strike water to 57.1C
- Add grains
- Keep mash 15 min at 53C
- Keep mash 30 min at 63C
- Keep mash 30 min at 73C
- Keep mash 0 min at 79C
- Sparge using 12.5 liter(s) of 76C water or to achieve 26.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Malt Monachijski Jasny	4.5 kg <i>(95.7%)</i>	79 %	16
Grain	Viking Malt Karmelowy 300	0.2 kg <i>(4.3%)</i>	70 %	299

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Spalt Select	20 g	55 min	4.2 %
Boil	Hallertau Spalt Select	10 g	25 min	4.2 %
Boil	Hallertau Spalt Select	10 g	5 min	4.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirlfloc	1.29 g	Boil	5 min