Lechu3

- Gravity 10.7 BLG
- ABV ---
- IBU 41
- SRM **4**
- Style German Pilsner (Pils)

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 27.7 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 65 C, Time 30 min Temp 72 C, Time 30 min
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up 15 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 30 min at 65C
- Keep mash 30 min at 72C
- Keep mash 0 min at 78C
- Sparge using 17.7 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	BESTMALZ - Best Pilsen	4.5 kg <i>(89.9%)</i>	80.5 %	4
Grain	Munich	0.32 kg <i>(6.4%)</i>	%	15
Grain	Munich	0.185 kg <i>(3.7%)</i>	%	22

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	25 g	60 min	15.3 %
Aroma (end of boil)	Spalt	50 g	0 min	5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
M54 california lager	Lager	Dry	10 g	Mangrove jacks

Extras

Туре	Name	Amount	Use for	Time
Fining	Irish Moss	4 g	Boil	15 min