carale

- Gravity 12.4 BLG
- ABV **5** %
- IBU **40**
- SRM **6.3**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 80 min
- Evaporation rate 10 %/h
- Boil size 26.1 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp **50 C**, Time **15 min** Temp **62 C**, Time **30 min** Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **1 min**

Mash step by step

- Heat up 15 liter(s) of strike water to 55C
- Add grains
- Keep mash 15 min at 50C
- Keep mash 30 min at 62C
- Keep mash 15 min at 72C
- Keep mash 1 min at 77C
- Sparge using 16.1 liter(s) of 76C water or to achieve 26.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Caraamber	0.5 kg <i>(10%)</i>	75 %	59
Grain	Viking Pale Ale malt	4.5 kg <i>(90%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	chmiel	150 g	20 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
s-33	Lager	Slant	200 ml	

Notes

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