Karo's gluten free hoppy blonde ale

- Gravity 14.7 BLG
- ABV 6.1 %
- IBU **26**
- SRM **12.1**
- Style Belgian Blond Ale

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 19.2 liter(s)
- Total mash volume 25.6 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 72 C, Time 20 min
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up 19.2 liter(s) of strike water to 76C
- · Add grains
- Keep mash 60 min at 68C
- Keep mash 20 min at 72C
- Keep mash 1 min at 76C
- Sparge using 13.3 liter(s) of 76C water or to achieve 26.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Cara-Pils/Dextrine	4 kg <i>(62.5%)</i>	72 %	4
Grain	Briess - Caracrystal Wheat Malt	1 kg <i>(15.6%)</i>	78 %	108
Grain	Briess - Bonlander Munich Malt	1 kg <i>(15.6%)</i>	78 %	20
Grain	Barley, Flaked	0.2 kg <i>(3.1%)</i>	70 %	4
Grain	Oats, Flaked	0.2 kg <i>(3.1%)</i>	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	20 g	60 min	9.5 %
Aroma (end of boil)	Hallertau Blanc	20 g	15 min	5.3 %
Whirlpool	Hallertau Blanc	20 g	5 min	5.3 %
Dry Hop	Citra	20 g	5 day(s)	12.9 %

Yeasts

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

Extras

Туре	Name	Amount	Use for	Time
Fining	white labs clarity ferm	20 g	Primary	9 day(s)
Water Agent	gips piwowarski	2.5 g	Boil	60 min