Arctic lager

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **27**
- SRM **4.4**
- Style Dortmunder Export

Batch size

- Expected quantity of finished beer 27 liter(s)
- Trub loss 0 %
- Size with trub loss 27 liter(s)
- · Boil time 75 min
- Evaporation rate 10 %/h
- Boil size 33.4 liter(s)

Mash information

- Mash efficiency 90 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 18.9 liter(s)
- Total mash volume 24.3 liter(s)

Steps

- Temp **50 C**, Time **20 min** Temp **67 C**, Time **45 min**
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 18.9 liter(s) of strike water to 54.3C
- · Add grains
- Keep mash 20 min at 50C
- Keep mash 45 min at 67C
- Keep mash 5 min at 76C
- Sparge using 19.9 liter(s) of 76C water or to achieve 33.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4.1 kg (75.9%)	85 %	6
Grain	Weyermann - Vienna Malt	0.7 kg <i>(13%)</i>	81 %	7
Grain	Carahell	0.3 kg <i>(5.6%)</i>	77 %	26
Grain	Weyermann - Carapils	0.3 kg <i>(5.6%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simco	20 g	60 min	13.4 %
Boil	Hallertau mittelfruer	20 g	20 min	3 %
Boil	Hallertau mittelfruer	30 g	5 min	3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	11.5 g	Fermentis Division of S.I.Lesaffre

Extras

Туре	Name	Amount	Use for	Time
Water Agent	gips	15 g	Mash	0 min