Kara Mustafa

- · Gravity 14 BLG
- ABV 5.8 %
- IBU **22**
- SRM **7.9**
- Style Vienna Lager

Batch size

- Expected quantity of finished beer 28.6 liter(s)
- Trub loss 5 %
- Size with trub loss 30 liter(s)
- · Boil time 65 min
- Evaporation rate 10 %/h
- Boil size 36.5 liter(s)

Mash information

- Mash efficiency 91 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 22.9 liter(s)
- Total mash volume 29.5 liter(s)

Steps

- Temp 54 C, Time 10 min
 Temp 63 C, Time 40 min
 Temp 72 C, Time 10 min
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 22.9 liter(s) of strike water to 58.9C
- Add grains
- Keep mash 10 min at 54C
- Keep mash 40 min at 63C
- Keep mash 10 min at 72C
- Keep mash 5 min at 76C
- Sparge using 20.2 liter(s) of 76C water or to achieve 36.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Vienna Malt	4 kg (61.1%)	81 %	8
Grain	Weyermann - Light Munich Malt	2 kg <i>(30.5%)</i>	82 %	14
Grain	Caramunich® typ I	0.25 kg <i>(3.8%)</i>	73 %	80
Grain	Weyermann - Cara Crystal	0.2 kg (3.1%)	78 %	150
Grain	wayermann - zakwaszajacy	0.1 kg <i>(1.5%)</i>	%	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Blanc	30 g	60 min	8.7 %
Boil	Saaz (Czech Republic)	30 g	10 min	3.7 %

Yeasts

Name Type	Form	Amount	Laboratory
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C-flW 24/70	1	D	11 Г	Fames and the
Saflager W 34/70	l Lager	l Drv	l 11.5 Q	l Fermentis 📗 📗
Carrage: 11 C ., / C	=∝g ∈.	1)	1 : > 9	