# **Bockbier Heaven und Hell 5**

- Gravity 16.1 BLG
- ABV 6.8 %
- IBU 27
- SRM **21.4**
- Style Traditional Bock

## **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

### **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21.3 liter(s)
- Total mash volume 28.4 liter(s)

### **Steps**

- Temp 55 C, Time 1 min
  Temp 63 C, Time 45 min
  Temp 72 C, Time 15 min
- Temp **78 C**, Time **1 min**

# Mash step by step

- Heat up 21.3 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 1 min at 55C
- Keep mash 45 min at 63C
- Keep mash 15 min at 72C
- Keep mash 1 min at 78C
- Sparge using 12.2 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Münchner Malz Best	3.8 kg <i>(53.5%)</i>	78 %	20
Grain	Wiener Malz Best	0.7 kg (9.9%)	80 %	8
Grain	Pilsner Malz Best	2 kg <i>(28.2%)</i>	81 %	3
Grain	Melanoidin BESTMALZ	0.2 kg <i>(2.8%)</i>	75 %	71
Grain	Caramunich II Best	0.2 kg (2.8%)	73 %	120
Grain	Carafa II Best	0.2 kg (2.8%)	65 %	1100

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	20 g	60 min	9.7 %
Boil	Perle	15 g	15 min	9.7 %
Aroma (end of boil)	Perle	10 g	5 min	9.7 %

### **Yeasts**

Name	Type	Form	Amount	Laboratory
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Wyeast 2206 - Bavarian Lager	Lager	Slant	600 ml	Wyeast Labs
Davarian Lager				