# **Doppelbock**

- Gravity 21.3 BLG
- ABV 9.5 %
- IBU **31**
- SRM **20.9**
- Style Doppelbock

#### **Batch size**

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- · Boil time 120 min
- Evaporation rate 7 %/h
- Boil size 15.7 liter(s)

## **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 17.3 liter(s)
- Total mash volume 23 liter(s)

## **Steps**

- Temp **64 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp 78 C, Time 10 min

# Mash step by step

- Heat up 17.3 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 40 min at 64C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 4.2 liter(s) of 76C water or to achieve 15.7 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Monachijski	3 kg <i>(52.2%)</i>	80 %	16
Grain	Vienna Malt	2 kg <i>(34.8%)</i>	78 %	8
Grain	Weyermann Caramunich 3	0.25 kg <i>(4.3%)</i>	76 %	150
Grain	Special B Castle	0.25 kg <i>(4.3%)</i>	70 %	350
Grain	Melanoiden Malt	0.25 kg <i>(4.3%)</i>	80 %	39

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	25 g	60 min	7.1 %
Boil	Perle	15 g	20 min	7.1 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Wyeast - 2633 Octoberfest Lager Blend	Lager	Slant	250 ml	Wyeast Labs