# Doppelbock 2

- Gravity 20.2 BLG
- ABV 8.9 %
- IBU **24**
- SRM **23.2**
- Style Doppelbock

#### **Batch size**

- Expected quantity of finished beer 19 liter(s)
- Trub loss 5 %
- Size with trub loss 19.9 liter(s)
- Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 25.2 liter(s)

# **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 2.9 liter(s) / kg
- Mash size 24.9 liter(s)
- Total mash volume 33.5 liter(s)

#### **Steps**

- Temp 55 C, Time 10 min
  Temp 63 C, Time 45 min
  Temp 72 C, Time 20 min
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up 24.9 liter(s) of strike water to 61C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 45 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 78C
- Sparge using 8.9 liter(s) of 76C water or to achieve 25.2 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Münchner Malz Best	4 kg <i>(46.5%)</i>	78 %	20
Grain	Wiener Malz Best	4 kg <i>(46.5%)</i>	80 %	8
Grain	Caramunich 2 Best	0.2 kg <i>(2.3%)</i>	73 %	120
Grain	Cara Amber	0.2 kg <i>(2.3%)</i>	75 %	70
Grain	Röstmalz Best	0.2 kg (2.3%)	%	1100

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	30 g	60 min	7.3 %
Boil	Lublin (Lubelski)	20 g	60 min	3 %

# **Yeasts**

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

#### **Extras**

Туре	Name	Amount	Use for	Time
Fining	Bierosol	5 g	Boil	10 min