

## Doppelbock 2

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- 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

| Type  | Name               | Amount        | Yield | EBC  |
|-------|--------------------|---------------|-------|------|
| Grain | Münchner Malz Best | 4 kg (46.5%)  | 78 %  | 20   |
| Grain | Wiener Malz Best   | 4 kg (46.5%)  | 80 %  | 8    |
| Grain | Caramunich 2 Best  | 0.2 kg (2.3%) | 73 %  | 120  |
| Grain | Cara Amber         | 0.2 kg (2.3%) | 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                         | Type  | Form  | Amount | Laboratory  |
|------------------------------|-------|-------|--------|-------------|
| Wyeast 2206 - Bavarian Lager | Lager | Slant | 600 ml | Wyeast Labs |

### Extras

| Type   | Name    | Amount | Use for | Time   |
|--------|---------|--------|---------|--------|
| Fining | Biersol | 5 g    | Boil    | 10 min |