## **Brown ALE**

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU **29**
- SRM **14.8**
- Style Brown IPA

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 65 min
- Evaporation rate 10 %/h
- Boil size 25.5 liter(s)

## **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 12 liter(s)
- Total mash volume 16 liter(s)

## **Steps**

- Temp 62 C, Time 60 min
  Temp 72 C, Time 20 min

# Mash step by step

- Heat up 12 liter(s) of strike water to 69C
- Add grains
- Keep mash 60 min at 62C
- Keep mash 20 min at 72C
- Sparge using 17.5 liter(s) of 76C water or to achieve 25.5 liter(s) of wort

#### **Fermentables**

| Туре  | Name                         | Amount              | Yield | EBC |
|-------|------------------------------|---------------------|-------|-----|
| Grain | Weyermann - Pale<br>Ale Malt | 3.4 kg <i>(85%)</i> | 85 %  | 7   |
| Grain | Carahell                     | 0.4 kg <i>(10%)</i> | 77 %  | 26  |
| Grain | Weyermann -<br>Carafa II     | 0.2 kg <i>(5%)</i>  | 70 %  | 837 |

#### Hops

| Use for | Name       | Amount | Time   | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil    | Challenger | 15 g   | 60 min | 7 %        |
| Boil    | Challenger | 15 g   | 15 min | 7 %        |
| Boil    | Warrior    | 30 g   | 5 min  | 15.5 %     |

#### **Yeasts**

| Name        | Туре | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 11.5 g | Fermentis  |