# **Ginger bread stout**

- Gravity 11.7 BLG
- ABV ----
- IBU 35
- SRM 32.9
- Style Sweet Stout

## **Batch size**

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 % •
- Size with trub loss 23.1 liter(s) •
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.7 liter(s)

#### Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s) •
- Total mash volume 21.2 liter(s)

#### Steps

- Temp 67 C, Time 45 min
  Temp 72 C, Time 15 min
- Temp 78 C, Time 0 min

## Mash step by step

- Heat up 15.9 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 45 min at 67C
- Keep mash 15 min at 72C •
- Keep mash 0 min at 78C
- Sparge using 17.1 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

## **Fermentables**

| Туре  | Name                         | Amount               | Yield | EBC  |
|-------|------------------------------|----------------------|-------|------|
| Grain | Weyermann - Pale<br>Ale Malt | 3.5 kg <i>(66%)</i>  | 85 %  | 7    |
| Grain | Cara Munich                  | 0.3 kg <i>(5.7%)</i> | %     | 160  |
| Grain | Roast barley                 | 0.5 kg <i>(9.4%)</i> | %     | 1300 |
| Grain | Oats, Flaked                 | 0.5 kg <i>(9.4%)</i> | 80 %  | 2    |
| Grain | Barley, Flaked               | 0.5 kg <i>(9.4%)</i> | 70 %  | 4    |

#### Hops

| Use for             | Name               | Amount | Time   | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil                | Target             | 30 g   | 60 min | 10.5 %     |
| Aroma (end of boil) | East Kent Goldings | 25 g   | 5 min  | 5.1 %      |

## Yeasts

| Name | Туре | Form | Amount | Laboratory     |
|------|------|------|--------|----------------|
| M15  | Ale  | Dry  | 10 g   | Mangrove jacks |

#### **Extras**

| Type Name | Amount | Use for | Time |
|-----------|--------|---------|------|
|-----------|--------|---------|------|

Recipe has been printed via BREWNESS.com - a complex online solution for homebrewers to track brewing process easily.

| Spice  | Cardamom, Black | 2 g | Boil | 15 min |
|--------|-----------------|-----|------|--------|
| Herb   | Ginger Root     | 5 g | Boil | 15 min |
| Spice  | Star Anise      | 2 g | Boil | 15 min |
| Flavor | Melasa          | 5 g | Boil | 15 min |