

Brown IPA

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **41**
- SRM **12.6**
- Style **Brown IPA**

Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.6 liter(s)**
- Boil time **65 min**
- Evaporation rate **10 %/h**
- Boil size **34.6 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **62 C**, Time **10 min**
- Temp **72 C**, Time **60 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **10 min** at **62C**
- Keep mash **60 min** at **72C**
- Sparge using **20.6 liter(s)** of **76C** water or to achieve **34.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Weyermann - Munich I | 5 kg (71.4%) | 80 % | 15 |
| Grain | Bindewald Pilsen | 1 kg (14.3%) | 80 % | 3 |
| Grain | Simpsons - Amber (biscuit) | 0.5 kg (7.1%) | 80 % | 65 |
| Grain | Weyermann - Pale Wheat Malt | 0.25 kg (3.6%) | 85 % | 5 |
| Grain | Caramunich® typ I | 0.15 kg (2.1%) | 73 % | 80 |
| Grain | Weyermann - Carafa I | 0.1 kg (1.4%) | 70 % | 900 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 15 g | 65 min | 14.5 % |
| Boil | Perle | 10 g | 20 min | 7 % |
| Boil | Centennial | 25 g | 20 min | 8.5 % |
| Aroma (end of boil) | Cascade | 25 g | 20 min | 9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-------|--------|-----|
| Safale US-05 | Ale | Slant | 150 ml | --- |
|--------------|-----|-------|--------|-----|

Extras

| Type | Name | Amount | Use for | Time |
|--------|------------|--------|---------|--------|
| Fining | Irish Moss | 5 g | Boil | 15 min |