

Belial

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **30**
- SRM **3.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **40 min**
- Evaporation rate **10 %/h**
- Boil size **25.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **15.6 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **15.2 liter(s)** of **76C** water or to achieve **25.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------------|---------------|-------|-----|
| Grain | Weyermann - Bohemian Pilsner Malt | 5.2 kg (100%) | 81 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|----------|------------|
| Boil | Equinox | 10 g | 15 min | 13.1 % |
| Boil | Equinox | 20 g | 10 min | 13.1 % |
| Aroma (end of boil) | Mosaic | 30 g | 5 min | 10 % |
| Aroma (end of boil) | falconer's flight | 30 g | 5 min | 11.3 % |
| Dry Hop | falconer's flight | 30 g | 4 day(s) | 11.3 % |
| Dry Hop | Mosaic | 30 g | 4 day(s) | 10 % |
| Dry Hop | Centennial | 30 g | 4 day(s) | 10.5 % |

Yeasts

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