

DOUBLE INDIA PALE ALE

- Gravity **20.6 BLG**
- ABV ---
- IBU **77**
- SRM **10.3**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **8 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **80 min**
- Evaporation rate **15 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **2.2 liter(s) / kg**
- Mash size **21.1 liter(s)**
- Total mash volume **30.7 liter(s)**

Steps

- Temp **55 C**, Time **13 min**
- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **21.1 liter(s)** of strike water to **63C**
- Add grains
- Keep mash **13 min** at **55C**
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **20.2 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Pilzneński | 7.5 kg (78.1%) | 81 % | 3 |
| Grain | Weyermann pszeniczny jasny | 1 kg (10.4%) | 80 % | 6 |
| Grain | Strzegom Monachijski typ I | 0.5 kg (5.2%) | 79 % | 16 |
| Grain | Strzegom Karmel 150 | 0.3 kg (3.1%) | 75 % | 150 |
| Grain | Weyermann - Acidulated Malt | 0.3 kg (3.1%) | 80 % | 6 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------|--------|--------|------------|
| Boil | Mosaic | 30 g | 60 min | 10 % |
| Boil | Amarillo | 30 g | 25 min | 9.5 % |
| Boil | Mosaic | 50 g | 25 min | 10 % |
| Boil | Centennial | 40 g | 15 min | 10.5 % |
| Whirlpool | Citra | 30 g | 0 min | 12 % |

| | | | | |
|---------|------------|------|----------|--------|
| Dry Hop | Centennial | 40 g | 7 day(s) | 10.5 % |
| Dry Hop | Citra | 40 g | 5 day(s) | 12 % |
| Dry Hop | Amarillo | 40 g | 3 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|--------|--------|------------|
| Safale S-05 | Ale | Liquid | 250 ml | Safale |
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