

## Exotic Pale Ale 2.0

- Gravity **11.9 BLG**
- ABV ---
- IBU **40**
- SRM **3.9**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.2 liter(s)**
- Total mash volume **21.6 liter(s)**

### Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **16.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **20.9 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

### Fermentables

| Type  | Name                      | Amount        | Yield  | EBC |
|-------|---------------------------|---------------|--------|-----|
| Grain | Simpsons - Golden Promise | 5 kg (92.6%)  | 79.5 % | 5   |
| Grain | Pszeniczny                | 0.4 kg (7.4%) | 85 %   | 4   |

### Hops

| Use for | Name     | Amount | Time     | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil    | Galaxy   | 10 g   | 60 min   | 14.5 %     |
| Boil    | Motueka  | 25 g   | 15 min   | 8 %        |
| Boil    | Amarillo | 25 g   | 10 min   | 8.9 %      |
| Boil    | Galaxy   | 30 g   | 5 min    | 14.5 %     |
| Dry Hop | Citra    | 50 g   | 5 day(s) | 12 %       |
| Dry Hop | Galaxy   | 10 g   | 5 day(s) | 15 %       |
| Dry Hop | Motueka  | 25 g   | 5 day(s) | 7 %        |
| Dry Hop | Amarillo | 25 g   | 5 day(s) | 9.5 %      |

### Yeasts

| Name                              | Type | Form | Amount | Laboratory      |
|-----------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M44 US West Coast | Ale  | Dry  | 11 g   | Mangrove Jack's |

## Extras

| Type        | Name | Amount | Use for | Time   |
|-------------|------|--------|---------|--------|
| Water Agent | gips | 10 g   | Mash    | ---    |
| Fining      | mech | 5 g    | Boil    | 15 min |