

# Australian Rye Pale Ale

- Gravity **13.4 BLG**
- ABV ---
- IBU **71**
- SRM **9.6**
- Style **American Wheat or Rye Beer**

## Batch size

- Expected quantity of finished beer **28 liter(s)**
- Trub loss **10 %**
- Size with trub loss **30.8 liter(s)**
- Boil time **65 min**
- Evaporation rate **15 %/h**
- Boil size **35.8 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.4 liter(s)**
- Total mash volume **27.2 liter(s)**

## Steps

- Temp **66 C**, Time **65 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **20.4 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **65 min** at **66C**
- Keep mash **10 min** at **76C**
- Sparge using **22.2 liter(s)** of **76C** water or to achieve **35.8 liter(s)** of wort

## Fermentables

| Type  | Name               | Amount         | Yield | EBC |
|-------|--------------------|----------------|-------|-----|
| Grain | Pale Ale           | 5 kg (73.5%)   | 80 %  | 4   |
| Grain | Karmelowy Czerwony | 1 kg (14.7%)   | 75 %  | 59  |
| Grain | Monachijski        | 0.8 kg (11.8%) | 80 %  | 16  |

## Hops

| Use for | Name             | Amount | Time     | Alpha acid |
|---------|------------------|--------|----------|------------|
| Boil    | Galaxy           | 20 g   | 60 min   | 15 %       |
| Boil    | Vic Secret (AUS) | 20 g   | 50 min   | 16.1 %     |
| Boil    | Summer           | 20 g   | 30 min   | 6.4 %      |
| Boil    | Summer           | 30 g   | 20 min   | 6.4 %      |
| Boil    | Summer           | 30 g   | 10 min   | 6.4 %      |
| Dry Hop | Galaxy           | 80 g   | 6 day(s) | 15 %       |
| Dry Hop | summer           | 20 g   | 6 day(s) | 6.4 %      |
| Dry Hop | Vic Secret (AUS) | 10 g   | 6 day(s) | 16.1 %     |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

## Extras

| Type  | Name                | Amount | Use for | Time   |
|-------|---------------------|--------|---------|--------|
| Spice | Skórka pomarańczowa | 20 g   | Boil    | 60 min |