

west coast 4.0

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **39**
- SRM **4.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.7 liter(s)**

Mash information

- Mash efficiency **86 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.7 liter(s)**
- Total mash volume **23.6 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **17.7 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Pilzneński | 5.5 kg (90.2%) | 81 % | 4 |
| Grain | Pszeniczny | 0.2 kg (3.3%) | 85 % | 4 |
| Sugar | cukier | 0.2 kg (3.3%) | --- % | --- |
| Grain | Simpsons - Caramalt | 0.2 kg (3.3%) | 76 % | 69 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------|--------|----------|------------|
| Boil | Tradition | 20 g | 40 min | 5.5 % |
| Boil | Citra | 30 g | 15 min | 12 % |
| Boil | izabella | 50 g | 10 min | 5 % |
| Boil | oktawia | 50 g | 5 min | 8.5 % |
| Dry Hop | Puławski | 50 g | 4 day(s) | 8.9 % |
| Dry Hop | Oktawia | 50 g | 4 day(s) | 7.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------|------|-------|--------|------------------|
| FM54 Gorączka kalifornijska | Ale | Slant | 150 ml | Fermentum Mobile |