

## West Coast IPA #21 (modyfikacja z AlePiwo.pl)

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **38**
- SRM **7.5**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **50 liter(s)**
- Trub loss **0 %**
- Size with trub loss **50 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **61.4 liter(s)**

### Mash information

- Mash efficiency **83 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **33 liter(s)**
- Total mash volume **44 liter(s)**

### Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **77 C**, Time **5 min**

### Mash step by step

- Heat up **33 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **39.4 liter(s)** of **76C** water or to achieve **61.4 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 10 kg (90.9%) | 80 %  | 12  |
| Grain | Viking Munich Malt   | 1 kg (9.1%)   | 78 %  | 47  |

### Hops

| Use for             | Name         | Amount | Time     | Alpha acid |
|---------------------|--------------|--------|----------|------------|
| Boil                | Styrian Wolf | 30 g   | 60 min   | 11.1 %     |
| Boil                | Sybilla      | 50 g   | 30 min   | 3.5 %      |
| Aroma (end of boil) | Cascade      | 100 g  | 20 min   | 6 %        |
| Aroma (end of boil) | Citra        | 100 g  | 0 min    | 12 %       |
| Dry Hop             | Simcoe       | 50 g   | 4 day(s) | 13.2 %     |
| Dry Hop             | Centennial   | 100 g  | 4 day(s) | 10.5 %     |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 22 g   | Fermentis  |

### Extras

| Type  | Name       | Amount | Use for   | Time     |
|-------|------------|--------|-----------|----------|
| Other | Witamina C | 4 g    | Secondary | 4 day(s) |
| Other | Witamina C | 4 g    | Bottling  | ---      |
| Other | Cukier     | 200 g  | Bottling  | ---      |