

# Candy Orange IPA

- Gęstość **11.4 BLG**
- ABV **4.6 %**
- IBU **11**
- SRM **3.3**

## Rozmiar warki

- Oczekiwana ilość gotowego piwa **20 L**
- Straty z fermentacji **5 %**
- Rozmiar ze stratami z fermentacji **22 L**
- Czas gotowania **60 min**
- Szybkość odparowywania **10 %/h**
- Ilość gotowanej brzezki **26.4 L**

## Zacieranie

- Wydajność zacierania **75 %**
- Stosunek wody do ziarna **3.5 L / kg**
- Ilość wody do zacierania **16.6 L**
- Całkowita objętość zacieru **21.4 L**

## Kroki

- Temp **71 C**, Czas **60 min**

## Zacieranie krok po kroku

- Podgrzej **16.6 L** wody do zacierania do **78.3C**
- Dodaj ziarna
- Przetrzyj zacier **60 min** w **71C**
- Wyszadzaj używając **14.6 L** wody o temp. **76C** lub do osiągnięcia **26.4 L** brzezki

## Surowce fermentujące

Typ	Nazwa	Ilość	Ekstrakcja	EBC
Ziarno	Strzegom Pilzneński	3.16 kg (66.5%)	80 %	4
Ziarno	Oats, Flaked	0.53 kg (11.2%)	80 %	2
Ziarno	Corn, Flaked	0.53 kg (11.2%)	80 %	2
Ziarno	Wheat, Flaked	0.53 kg (11.2%)	77 %	4

## Chmiele

Użyto do	Nazwa	Ilość	Czas	Alfa kwasy
Gotowanie	Citra	8.42 g	60 min	12 %
Aromat (koniec gotowania)	Citra	88.42 g	0 min	12 %
Aromat (koniec gotowania)	Amarillo / Lemon drops	29.47 g	0 min	9.5 %
Na zimno	Citra	29.47 g	---	12 %
Na zimno	Lemon drop	29.47 g	---	4.6 %

## Drożdze

Nazwa	Typ	Forma	Ilość	Laboratorium
Mangrove Jack's M44 US West Coast	Ale	Gęstwa	105.26 ml	Mangrove Jack's

## Dodatki

Typ	Nazwa	Ilość	Użyto do	Czas
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Dodatek smakowy	Skarmelizowane skórki z 4 pomarańczy i 1 cytryny	31.58 g	Fermentacja cicha	---
Dodatek smakowy	karmel z karmelizowania pomarańczy	31.58 g	Gotowanie	60 min

## Notatki

- Citra (3 oz) & Lemon Drop (1 oz) hopstand after completing the boil and cooling the wort below 76,6 C.

### Grains

After heating the water to strike temp, we inserted the grain basket in our kettle and added the following grains to the grain basket:

2 Row Pilsner (2.0 SRM) - 6lbs

Flaked Oats (1.0 SRM) - 1lbs

Flaked Corn (1.7 SRM) - 1lb

Flaked Wheat (1.6 SRM) - 1lb

### Mashing

We mashed at 160F for 60 mins. We mashed at a bit higher temperature than we have in the past for this style of beer. The goal was to increase beta amylase activity, which should boost the amount of unfermentable sugar, giving the beer a bit more sweetness and body.

### Citrus Zest

While mashing, we worked on processing some citrus zest. We took the peel from 3 oranges and 1 lemon and blanched them. Here's a quick guide to blanching citrus fruit:

Add peels to pot of cold water (enough water to cover peels)

Heat water to a boil

As soon as boil starts, remove from heat, strain peels, and dump water.

Add more cold water to pot along with strained peels

Begin process again.

Repeat this entire process 3 times and make sure to remove the pot from the heat and strain the fruit as soon as a boil is reached. This process reduces the bitterness of the fruit. However, if you leave the peels boil, bitterness will actually increase.

### Making Candied Citrus Peel

After blanching we moved on to creating candied peels. To do this we made some simple syrup by dissolving 400 grams of sugar in 400 grams of water (a 1 to 1 ratio). We then added the peels and simmered for 45 minutes. After that we put the peels in a food dehydrator and let them sit on low heat for about 24 hours.

### Boiling / Hops

We boiled for 60 minutes and added the following hops, etc:

Citra (0.25 oz) at 60 minutes (the start of the boil)

Citra (3 oz) & Lemon Drop (1 oz) hopstand after completing the boil and cooling the wort below 170F.

Simple Syrup was also added with the hopstand hops.

### Fermentation

After leaving the hopstand hops hang out for 20 minutes, we chilled the wort to 68F and added it to a sanitized bucket. We pitched some yeast and let it chill for half a week then added another ounce of citra and an additional ounce of lemon drop hops. We also added candied orange peel at this time. Fermentation kicked off again (because of the sugar in the candied orange peels) and finished a few days later. California Ale yeast.

### Additional Benchmarks

Starting Gravity: 1.046

Final Gravity: 1.015

ABV: 4.07%

### Tasting Notes

This beer is one of the best we've brewed. It was super balanced and had a perfect blend of bitterness, hops flavor, and sweetness. The lemon drop hops and orange made for a very pleasant aroma. It tasted like a light citrus IPA, but the orange flavor came through nicely. It was present but not at all overpowering. We really liked the balance of sweet and bitterness as well. We rate this recipe 10/10 and highly recommend brewing it.

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