## **Witless on Citrus**

- Gravity 15.2 BLG
- ABV ---
- IBU 16
- SRM **4**
- Style Witbier

#### **Batch size**

- Expected quantity of finished beer 22.7 liter(s)
- Trub loss 5 %
- Size with trub loss 23.8 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 28.7 liter(s)

## **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 2.61 liter(s) / kg
- Mash size 14.9 liter(s)
- Total mash volume 20.9 liter(s)

#### **Steps**

• Temp 66.7 C, Time 60 min

#### Mash step by step

- Heat up 14.9 liter(s) of strike water to 75.7C
- · Add grains
- Keep mash 60 min at 66.7C
- Sparge using 19.5 liter(s) of 76C water or to achieve 28.7 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilsner (2 Row) Bel	2.45 kg <i>(37.5%)</i>	79 %	4
Grain	Wheat, Flaked	3.27 kg (50.1%)	77 %	4
Adjunct	Rice Hulls	0.54 kg (8.3%)	1 %	0
Sugar	Candi Sugar, Clear	0.27 kg (4.2%)	78.3 %	2

## **Hops**

Use for	Name	Amount	Time	Alpha acid
Boil	Styrian Golding	35.44 g	60 min	3.6 %
Boil	Saaz (USA)	21.26 g	15 min	3.75 %

# Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - Belgian Witbier 3944	Ale	Liquid	29.6 ml	Wyeast Labs

# **Extras**

Туре	Name	Amount	Use for	Time
Spice	Cumin, crushed	8.5 g	Boil	15 min
Spice	Grains of Paradise, crushed	17.01 g	Boil	15 min
Spice	Corriander, ground	17.01 g	Boil	15 min

Other	Cumquat, whole frozen (bitter)	680.39 g	Boil	15 min
Spice	Gorriander, ground	8.5 g	Boil	5 min
Other	Meiwa Cumquat, whole frozen (sweet)	340.19 g	Primary	7 day(s)

## **Notes**

Added Candi Sugar at 5 min boil remaining (stir/whirlpool until dissolved)
FG 1.003
Higher efficiency than expected at 87%
http://imgur.com/a/1CkbA
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