# **ExcuseMyFrencz**

- Gravity 15.4 BLG
- ABV ----
- IBU **79**
- SRM **6.4**
- Style Belgian IPA

#### **Batch size**

- Expected quantity of finished beer 21 liter(s)
- Trub loss 2 %
- Size with trub loss 22.1 liter(s)
- Boil time 65 min
- Evaporation rate 17 %/h
- Boil size 27.4 liter(s)

#### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.5 liter(s)
- Total mash volume 23.4 liter(s)

## **Steps**

- Temp 62 C, Time 20 min
  Temp 72 C, Time 40 min
- Temp 78 C, Time 10 min

## Mash step by step

- Heat up 17.5 liter(s) of strike water to 69C
- Add grains
- Keep mash 20 min at 62C
- Keep mash 40 min at 72C
- Keep mash 10 min at 78C
- Sparge using 15.8 liter(s) of 76C water or to achieve 27.4 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	3 kg <i>(51.3%)</i>	82.61 %	8
Grain	Pilsner	1.5 kg <i>(25.6%)</i>	82.61 %	3
Grain	Munich Light	1 kg <i>(17.1%)</i>	80.43 %	15
Grain	Caramel Pils	0.35 kg <i>(6%)</i>	73.91 %	20

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	30 g	60 min	14.7 %
Boil	Amarillo	30 g	30 min	8.6 %
Boil	Amarillo	25 g	15 min	8.6 %
Boil	Nelson Sauvin	20 g	2 min	11.2 %
Dry Hop	Nelson Sauvin	30 g	3 day(s)	11.2 %
Dry Hop	Amarillo	30 g	1 day(s)	8.6 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M27 Belgian Ale	Ale	Dry	11 g	Mangrove Jack's

# **Extras**

Туре	Name	Amount	Use for	Time
Water Agent	Gypsium	4 g	Mash	0 min