# **American saison**

- Gravity 12.6 BLG
- ABV ---
- IBU **45**
- SRM 4.8
- Style Saison

### **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 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

# **Steps**

- Temp 64 C, Time 60 min
  Temp 71 C, Time 10 min
- Temp 77 C, Time 1 min

# Mash step by step

- Heat up 15 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 10 min at 71C
- Keep mash 1 min at 77C
- Sparge using 17.7 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (90%)	80 %	5
Grain	Viking Wheat Malt	0.5 kg <i>(10%)</i>	83 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Boil	Mosaic	20 g	15 min	10 %
Whirlpool	Mosaic	30 g		10 %
Dry Hop	Mosaic	50 g		10 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M27 Belgian Ale	Ale	Slant	60 ml	Mangrove Jack's

### **Extras**

Type Name Amount Use for Time
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Spice	Aframon Madagaskarski	5 g	Boil	5 min
Spice	curacao	20 g	Boil	5 min
Spice	skórka z cytryny	20 g	Boil	5 min