#### test

- Gravity 12.9 BLG
- ABV **5.2** %
- IBU **21**
- SRM **4.9**
- Style American Pale Ale

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26 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 62 C, Time 40 min
  Temp 72 C, Time 20 min
- Temp 77 C, Time 1 min

## Mash step by step

- Heat up 15 liter(s) of strike water to 69C
- Add grains
- Keep mash 40 min at 62C
- Keep mash 20 min at 72C
- Keep mash 1 min at 77C
- Sparge using 16 liter(s) of 76C water or to achieve 26 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	5 kg <i>(100%)</i>	85 %	7

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	15 g	60 min	12 %
Aroma (end of boil)	Citra	45 g	1 min	12 %