IPA #3

- Gravity 12.4 BLG ABV 5 %
- IBU **99**
- SRM 4.2
- Style American IPA

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

• Temp 68 C, Time 60 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Sparge using 20.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Malteurop Pale Ale	5.5 kg <i>(100%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	30 g	30 min	15.5 %
Boil	Mosaic	20 g	15 min	10 %
Boil	Equinox	20 g	15 min	13.1 %
Aroma (end of boil)	Simcoe	20 g	15 min	13.2 %
Aroma (end of boil)	Amarillo	20 g	15 min	9.5 %
Dry Hop	Columbus/Tomahawk/Zeus	30 g	7 day(s)	15.5 %
Dry Hop	Simcoe	30 g	7 day(s)	13.2 %
Dry Hop	Amarillo	30 g	7 day(s)	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	10 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
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Water Agent	gips	4 g	Boil	60 min
Water Agent	chlorek wapnia	4 g	Boil	60 min