Bitter Lemon V2

- Gravity **15.2 BLG**
- ABV ----
- IBU 90
- SRM **15.2**
- Style American IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 27.9 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 19.2 liter(s)
- Total mash volume 25.6 liter(s)

Steps

- Temp 58 C, Time 5 min
 Temp 67 C, Time 80 min
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 19.2 liter(s) of strike water to 64.3C
- Add grains
- Keep mash 5 min at 58C
- Keep mash 80 min at 67C
- Keep mash 1 min at 78C
- Sparge using 15.1 liter(s) of 76C water or to achieve 27.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	3 kg <i>(46.9%)</i>	80 %	7
Grain	Briess - Munich Malt 10L	2 kg <i>(31.3%)</i>	77 %	20
Grain	Briess - Carapils Malt	0.2 kg (3.1%)	74 %	3
Grain	Biscuit Malt	1 kg <i>(15.6%)</i>	79 %	45
Grain	Briess - Caracrystal Wheat Malt	0.2 kg <i>(3.1%)</i>	78 %	108

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	60 g	60 min	12 %
Boil	Chinook	30 g	10 min	13 %
Dry Hop	Citra	30 g	7 day(s)	12 %
Dry Hop	Mandarina Bavaria	30 g	7 day(s)	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-05	Ale	Dry	11.5 g	fermentis

Extras

Туре	Name	Amount	Use for	Time
Water Agent	phosphoric acid	2 g	Mash	90 min
Other	irish moss	5 g	Boil	10 min
Flavor	lemon peel	15 g	Secondary	7 day(s)
Flavor	lemon peel	10 g	Boil	10 min