Wądroże IPA #3

- Gravity 15.2 BLG ABV 6.3 %
- IBU 104
- SRM **6.3**
- Style American IPA

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 6 %
- Size with trub loss 25.3 liter(s)
- · Boil time 60 min
- Evaporation rate 7 %/h
- Boil size 28.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 24.5 liter(s)
- Total mash volume 31.5 liter(s)

Steps

- Temp 55 C, Time 20 min
 Temp 64 C, Time 60 min
 Temp 72 C, Time 15 min
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 24.5 liter(s) of strike water to 60C
- Add grains
- Keep mash 20 min at 55C
- Keep mash 60 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 76C
- Sparge using 11.3 liter(s) of 76C water or to achieve 28.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Wayermann Pale Ale	5 kg <i>(71.4%)</i>	84 %	7
Grain	Carahell	1 kg <i>(14.3%)</i>	77 %	26
Grain	Weyermann - Carapils	1 kg <i>(14.3%)</i>	78 %	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	30 min	15 %
Boil	Enigma	30 g	60 min	17.2 %
Boil	Simcoe	30 g	5 min	13.3 %
Boil	Summit	30 g	15 min	14.3 %
Boil	Chinook	30 g	5 min	12.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Herb	ekstrakt chmielowy	2.5 g	Bottling	