013 American India Pale Ale

- Gravity 15.6 BLG
- ABV ----
- IBU **103**
- SRM **12.9**
- Style American IPA

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 10 %
- Size with trub loss 26.4 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.5 liter(s)
- Total mash volume 26 liter(s)

Steps

- Temp **66 C**, Time **60 min** Temp **72 C**, Time **15 min**
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 19.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 15 min at 72C
- Keep mash 10 min at 76C
- Sparge using 17.4 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	5 kg <i>(76.9%)</i>	85 %	7
Grain	Weyermann - Pale Wheat Malt	0.5 kg (7.7%)	85 %	5
Grain	Strzegom Monachijski typ I	0.5 kg <i>(7.7%)</i>	79 %	16
Grain	Caramunich Malt	0.5 kg <i>(7.7%)</i>	71.7 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	50 g	60 min	15.5 %
Boil	Centennial	30 g	30 min	10.5 %
Boil	Citra	20 g	30 min	12 %
Boil	Citra	30 g	1 min	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - American Ale	Ale	Liquid	1000 ml	Wyeast Labs