APA

- Gravity 12.9 BLG
- ABV ---
- IBU **36**
- SRM **11.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 12.7 liter(s)

Mash information

- Mash efficiency 60 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 9.8 liter(s)
- Total mash volume 12.6 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 9.8 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 1 min at 78C
- Sparge using 5.7 liter(s) of 76C water or to achieve 12.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	2 kg (71.4%)	85 %	7
Grain	Weyermann - Pale Wheat Malt	0.5 kg <i>(17.9%)</i>	85 %	5
Grain	Caramel/Crystal Malt - 120L	0.3 kg <i>(10.7%)</i>	72 %	160

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	7 g	60 min	12 %
Aroma (end of boil)	Equinox	20 g	1 min	13.1 %
Aroma (end of boil)	Amarillo	20 g	1 min	9.5 %
Dry Hop	Equinox	30 g	5 day(s)	13.1 %
Dry Hop	Citra	30 g	2 day(s)	12 %
Boil	Citra	5 g	30 min	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	200 ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Water Agent	gips piwowarski	5 g	Mash	60 min