AMERICAN PILS

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU **21**
- SRM **2.7**
- Style Premium American Lager

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 24.2 liter(s)
- · Boil time 75 min
- Evaporation rate 15 %/h
- Boil size 32.7 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.3 liter(s) / kg
- Mash size 19.1 liter(s)
- Total mash volume 24.9 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 62 C, Time 30 min
 Temp 72 C, Time 20 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 19.1 liter(s) of strike water to 56.9C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 30 min at 62C
- Keep mash 20 min at 72C
- Keep mash 5 min at 78C
- Sparge using 19.4 liter(s) of 76C water or to achieve 32.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	5.5 kg <i>(94.8%)</i>	80.5 %	2
Grain	Briess - Carapils Malt	0.3 kg <i>(5.2%)</i>	74 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	40 g	60 min	6 %
Whirlpool	Citra	50 g	0 min	12 %
Whirlpool	Cascade	50 g	0 min	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
safale w34/70	Lager	Dry	11.5 g	safale

Extras

Туре	Name	Amount	Use for	Time
Fining	IRISH MOSS	5 g	Boil	10 min

Notes	
 HOP STAND od 78-70* -> około 30 min. Oct 21, 2018, 5:29 PM 	