Capitan America

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **29**
- SRM **6.2**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 3 %
- Size with trub loss 22.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.8 liter(s)
- Total mash volume 22.4 liter(s)

Steps

- Temp 40 C, Time 30 min
 Temp 63 C, Time 40 min
 Temp 73 C, Time 20 min
- Temp **77 C**, Time **15 min**

Mash step by step

- Heat up 16.8 liter(s) of strike water to 43.3C
- Add grains
- Keep mash 30 min at 40C
- Keep mash 40 min at 63C
- Keep mash 20 min at 73C
- Keep mash 15 min at 77C
- Sparge using 15.6 liter(s) of 76C water or to achieve 26.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (89.3%)	79 %	6
Grain	Strzegom Monachijski typ II	0.5 kg <i>(8.9%)</i>	79 %	22
Grain	Weyermann - Carawheat	0.1 kg <i>(1.8%)</i>	77 %	125

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	14 g	60 min	9.4 %
Boil	Cascade	14 g	30 min	7.1 %
Boil	Centennial	7 g	30 min	9.4 %
Aroma (end of boil)	Cascade	7 g	15 min	7.1 %
Aroma (end of boil)	Cascade	6 g	0 min	7.1 %
Dry Hop	Cascade	23 g	15 day(s)	7.1 %
Dry Hop	Centennial	29 g	15 day(s)	9.4 %

Yeasts

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