Micro PA - 2

- Gravity 10 BLG
- ABV 4 %
- IBU **29**
- SRM **3.4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 19 liter(s)
- Trub loss 5 %
- Size with trub loss 19.9 liter(s)
- · Boil time 75 min
- Evaporation rate 10 %/h
- Boil size 24.6 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 12.3 liter(s)
- Total mash volume 15.8 liter(s)

Steps

- Temp 55 C, Time 1 min
 Temp 68 C, Time 60 min
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 12.3 liter(s) of strike water to 60C
- Add grains
- Keep mash 1 min at 55C
- Keep mash 60 min at 68C
- Keep mash 5 min at 76C
- Sparge using 15.8 liter(s) of 76C water or to achieve 24.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale Best	2.5 kg <i>(71.4%)</i>	80 %	6
Grain	Weizenmalz Best	0.3 kg (8.6%)	82 %	4
Grain	Carapils Best	0.2 kg <i>(5.7%)</i>	75 %	5
Grain	Oats, Flaked	0.5 kg <i>(14.3%)</i>	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	1 g	60 min	9.7 %
Aroma (end of boil)	Amarillo	20 g	15 min	7.4 %
Whirlpool	Amarillo	50 g	30 min	7.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Liquid	100 ml	Wyeast Labs