brett

- Gravity 12.9 BLG
- ABV **5.2** %
- IBU **11**
- SRM **3.9**
- Style American IPA

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp **52** C, Time **10** min Temp **68** C, Time **40** min Temp **72** C, Time **10** min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 18 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 40 min at 68C
- Keep mash 10 min at 72C
- Keep mash 5 min at 78C
- Sparge using 19.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(83.3%)</i>	80 %	5
Grain	Pszeniczny	1 kg (16.7%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Warrior	7 g	70 min	15.5 %
Whirlpool	Cascade	10 g	1 min	7.1 %
Whirlpool	Centennial	10 g	1 min	9.4 %
Whirlpool	Mosaic	10 g	1 min	12 %
Dry Hop	Cascade	20 g	3 day(s)	7.1 %
Dry Hop	Centennial	20 g	3 day(s)	9.4 %
Dry Hop	Mosaic	30 g	3 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Ivaille	i ype	1 01 111	Aillouit	Laboratory

Wyeast -	Ale	Liquid	1300 ml	Wyeast Labs
Brettanomyces bruxellensis				
bruxellensis				