

Na lato

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **21**
- SRM **5.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **10 %**
- Size with trub loss **12.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6.8 liter(s)**
- Total mash volume **9 liter(s)**

Steps

- Temp **70 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **6.8 liter(s)** of strike water to **78.3C**
- Add grains
- Keep mash **60 min** at **70C**
- Keep mash **1 min** at **78C**
- Sparge using **10 liter(s)** of **76C** water or to achieve **14.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1 kg (40%)	80 %	5
Grain	Pszeniczny	0.5 kg (20%)	85 %	4
Grain	Płatki owsiane	0.5 kg (20%)	85 %	3
Grain	Strzegom Bursztynowy	0.25 kg (10%)	70 %	49
Dry Extract	Briess DME - Golden Light	0.25 kg (10%)	95 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	lunga	20 g	15 min	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	150 ml	Fermentum Mobile