

PIPA

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **50**
- SRM **4.5**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **66 C**, Time **90 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **90 min** at **66C**
- Keep mash **1 min** at **78C**
- Sparge using **14.5 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	6 kg (100%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	44 g	60 min	10.6 %
Boil	Lubelski	20 g	5 min	3.8 %
Boil	Premiant	10 g	5 min	8.2 %
Boil	Sladek	10 g	5 min	6.2 %
Dry Hop	Lubelski	30 g	4 day(s)	3.8 %
Dry Hop	Premiant	30 g	4 day(s)	8.2 %
Dry Hop	Sladek	30 g	4 day(s)	6.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Dry	11.5 g	---