Forest IPA

- Gravity **14.3 BLG**
- ABV **---**
- IBU **69**
- SRM **5.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg *(61.5%)*	80 %	5
Grain	Pszeniczny	1 kg *(15.4%)*	85 %	4
Grain	Żytni	1 kg *(15.4%)*	85 %	8
Grain	Carahell	0.5 kg *(7.7%)*	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	60 min	13 %
Boil	Simcoe	30 g	20 min	13.2 %
Boil	Simcoe	30 g	10 min	13.2 %

Yeasts

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

Extras

Type	Name	Amount	Use for	Time
Flavor	Pędy Świerku	100 g	Boil	20 min
Flavor	pędy świerku	100 g	Boil	10 min
Flavor	pędy jodły, sosny i modrzewia	100 g	Boil	10 min