

Forest IPA

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **77**
- SRM **5.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14 liter(s)**

Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **10.9 liter(s)**
- Total mash volume **14 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.91 kg (61.4%)	80 %	5
Grain	Weizenmalz	0.48 kg (15.4%)	85 %	4
Grain	Roggen	0.48 kg (15.4%)	85 %	8
Grain	Carahell	0.24 kg (7.7%)	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	14.35 g	60 min	13 %
Boil	Simcoe	14.35 g	20 min	13.2 %
Boil	Simcoe	14.35 g	10 min	13.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Dry	5.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Flavor	Fichtentriebe	47.83 g	Boil	20 min
Flavor	Fichtentriebe	47.83 g	Boil	10 min
Flavor	Tannentriebe, Zirben und Lärchen	47.83 g	Boil	10 min