

American Brown Ale

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **34**
- SRM **19.9**
- Style **American Brown Ale**

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 **13 %/h**
- Boil size **14.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **12.6 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **9.8 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **7.4 liter(s)** of **76C** water or to achieve **14.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.35 kg (83.9%)	80 %	5
Grain	Weyermann Special W	0.25 kg (8.9%)	73 %	280
Grain	Strzegom Karmel 30	0.1 kg (3.6%)	75 %	30
Grain	Chocolate Malt (UK) Crisp	0.1 kg (3.6%)	73 %	887

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	10 g	60 min	15.5 %
Boil	Mosaic	20 g	2 min	10 %
Boil	Willamette	20 g	0 min	5 %
Dry Hop	Cascade	20 g	3 day(s)	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Slant	350 ml	Fermentum Mobile