

Pirate Jack

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **74**
- SRM **5.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **13.8 liter(s)**

Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.9 liter(s)**
- Total mash volume **13.2 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up **9.9 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **2 min** at **78C**
- Sparge using **7.2 liter(s)** of **76C** water or to achieve **13.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale - Viking Malt	2.8 kg (84.8%)	80 %	6
Grain	Słód pszeniczny Bestmalz	0.2 kg (6.1%)	82 %	5
Grain	Wiedeński - Viking Malt	0.2 kg (6.1%)	79 %	10
Grain	Cara Blonde - Castle Malting	0.1 kg (3%)	78 %	20

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	15 g	60 min	13 %
Boil	Simcoe	15 g	30 min	13.2 %
Boil	Citra	5 g	30 min	12 %
Aroma (end of boil)	Cascade	20 g	1 min	6 %
Aroma (end of boil)	Styrian Golding	20 g	1 min	3.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
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Safale US-05	Ale	Dry	11.5 g	Fermentis
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Notes

- Woda Żywiecki kryształ: Ca - 8.82; Na - 2.30; Mg - 4,86; Cl - 3,54; HCO₃ - 24,41; So₄ - 19.96
PH Wody: 7
Gips: 3.5g
Chlorek wapnia: 1.1g
Woda docelowa: Ca - 89.6; Na - 4.9; Mg - 2.3; HCO₃ - 50.4; So₄ - 150.1
PH docelowe: 5.38

Schłodzenie brzezki i drożdży do 14°C. Zadanie drożdży.

Fermentacja burzliwa: 14°C otoczenia, piwo będzie miało 16°C, jak zacznie spadać, to podbicie temperatury otoczenia do 16°C.

Fermentacja cicha: 16°C otoczenia.

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