Harry Porter

- Gravity 20.5 BLG
- ABV 9 %
- IBU **31**
- SRM **25.9**
- Style Baltic Porter

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 10 %
- Size with trub loss 23.1 liter(s)
- Boil time 80 min
- Evaporation rate 15 %/h
- Boil size 30.2 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 31.9 liter(s)
- Total mash volume 41 liter(s)

Steps

- Temp **55 C**, Time **10 min** Temp **65 C**, Time **60 min**
- Temp 76 C, Time 15 min

Mash step by step

- Heat up 31.9 liter(s) of strike water to 60C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 60 min at 65C
- Keep mash 15 min at 76C
- Sparge using 7.4 liter(s) of 76C water or to achieve 30.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Vienna Malt	4 kg <i>(44%)</i>	77 %	9
Grain	Briess - Munich Malt 10L	3 kg <i>(33%)</i>	77 %	20
Grain	Briess - Munich Malt 20L	1 kg (11%)	74 %	39
Grain	Briess - Chocolate Malt	0.3 kg <i>(3.3%)</i>	60 %	690
Grain	Caraaroma	0.3 kg <i>(3.3%)</i>	78 %	400
Grain	Caramunich® typ I	0.5 kg <i>(5.5%)</i>	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Premiant	60 g	60 min	5.9 %
Boil	Premiant	60 g	5 min	5.9 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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Wyeast - Bohemian Lager 2124	Lager	Slant	250 ml	Wyeast Labs

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Lactic acid 80 %	4.8 g	Mash	50 min
Water Agent	Calcium chloried flake	9.3 g	Mash	80 min
Water Agent	Calcium sulphate	8.3 g	Mash	80 min