

Bueche µLAB

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Analyical report for Faux-Bourdons brewery

Standard parameters measurment

06/01/24

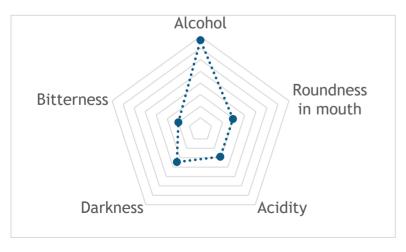
ANALYSIS PERFORMED

Samples were analysed twice for measuring alcohol, density, EBC color, pH and IBU bitterness. Alcohol and density were established by using an Alex 500 from Anton-Paar, following the measurment protocol advised by the manufacturer. EBC color, pH and IBU bitterness were established by using Mebak protocols. Residual sugars as well as organic acids were measured by ionic chromatography. Finally, higher alcohol and esters were assessed by Headspace GS-MS, as suggested by MEBAK protocols. These parameters allow to draw the "identity card" of the beer.

Samples:

Operculette Lot OP7

	Alcohol (%V/V)	Density (g/cm3)	Alcohol (%W/W)	Ap. extract (%W/W)	Re. extract (%W/W)	Or. extract (%W/W)	ADF (%)	RDF (%)	Calories (kJ/dl)	рН	EBC color	IBU bitter	Comment
Operculette	9.38	1.0155	7.29	4.41	7.58	21.01	79.01	66.53	330.15	4.42	65	24	



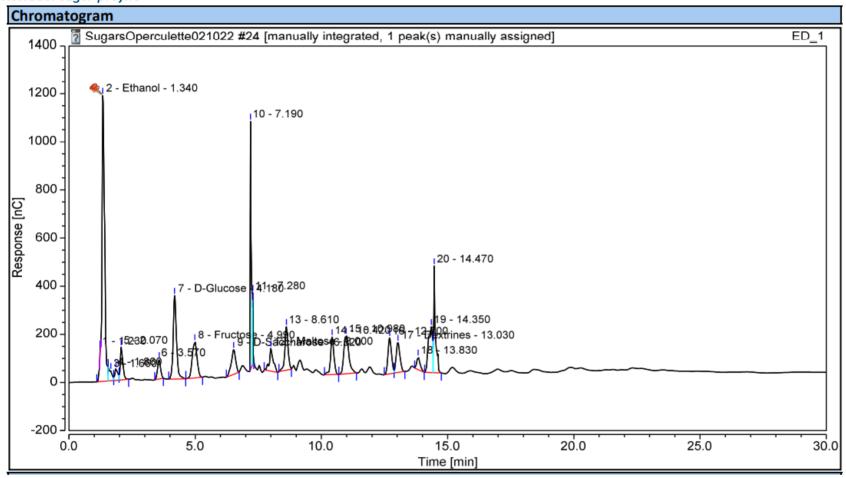
Le Pâquier, the 06th of January 2024

Dr Matthieu Bueche

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Residual suger profile

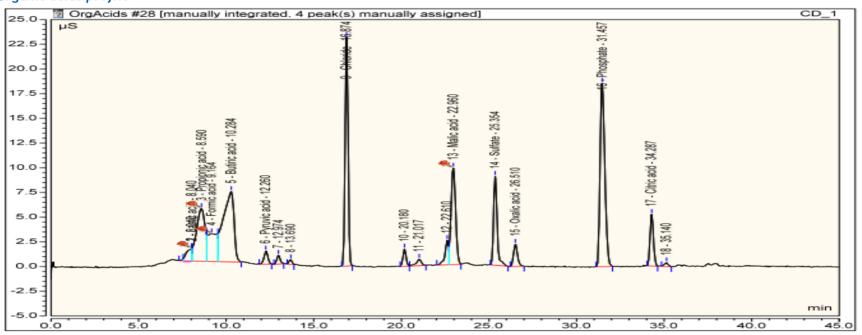


Fermnentable sugars:

D-glucose: 0.67g/l Fructose: 0.60g/l D-Saccharose: 0.33g/l Maltose: 0.54g/l

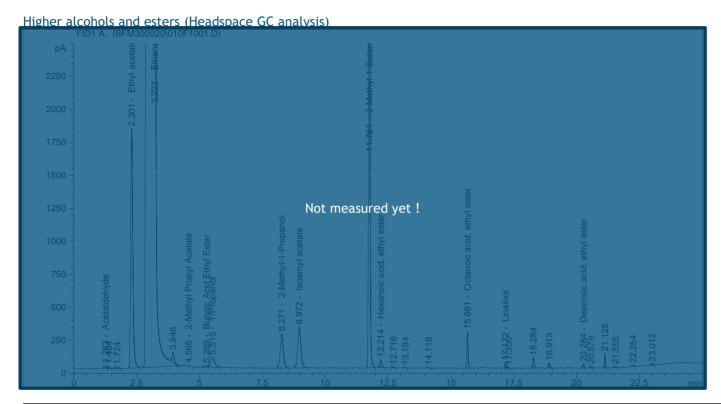


Organic acids profile



No.	Time Peak Name		Peak Type	Area	Height	Amount (g/l)
	min			μS*min	μS	, ,
1	8.04	Lactic acid	Ru*^	0.481	1.327	0.3550
3	8.59	Propionic acid	M *^	3.036	5.357	3.1568
4	9.16	Formic acid	M *^	1.776	2.826	0.3491
5	10.28	Butiric acid	MB*	5.097	7.141	5.5678
6	12.26	Pyruvic acid	BMB	0.344	1.347	0.0909
9	16.87	Chloride	BMB	4.530	23.167	n.a.
13	22.96	Malic acid	MB [^]	2.960	9.792	1.5214
14	25.35	Sulfate	BMB	2.115	9.022	n.a.
15	26.51	Oxalic acid	BMB	0.600	2.270	0.0553
16	31.46	Phosphate	BMB	5.794	18.571	n.a.
17	34.29	Citric acid	BMB	1.185	5.226	0.7451
		TOTAL:		27.92	86.05	11.84





Pk	Compound name	Amount	Flavor, description
		(ng/µl)	
1	Acetaldehyde	NA	Green apple flavor. Acetaldehyde is present in all beers.
2	Ethylacetate	NA	Nail varnish or solvent like flavor. Ethyl Acetate is present in all beers as it a natural part of the fermentation process by yeast
3	Ethanol		
4	2-Methyl Propyl Acetate	NA	
5	Butyric Acid Ethyl Ester	NA	
6	1-Propanol	NA	Rough flavors, harshness of beer
7	2-Methyl-1-propanol	NA	Rough flavors, harshness of beer
8	Isoamyl-acetate	NA	Common ester flavor which is present in all beers. It is perceived as a banana, pear drop or fruit like flavor
9	2-Methyl-1-butanol	NA	Fruity flavor



Tasting notes
To be defined!