

Quality, Consistency & Support

ALL RECOMMENDED PRODUCTS AVAILABLE THROUGH BREW UK

Jamie Turner 24 Oster St St Albans Herts AL3 5JL

May 31, 2016 .6

Dear Jamie

Please find below the results of your liquor analysis plus a recommendation for treating both the liquor and mash.

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Bitters and Pale Ales

Sample **L**iquor CJF 3101 Lab Number

Ions (All figures in ppm)	AMS	DWB	Raw Liquor	Theoretical Wort Values Pre	Targets	
0 /			Liquoi	Fermentation	Lower	Upper
pH O	101	200	7.13	N/A	N/A	N/A
Nitrate 0	COSS-		29.30	29.3	0	50
Total Hardness (as CaCO3)	DA		308.00	N/A	N/A	N/A
Calcium	55	125	61.47	186.47	180	220
Magnesium 🔍		3.8	2.88	6.68	0	50
Chloride	79	123	27.63	229.63	150	250
Sulphate	109	257	23.45	389.45	250	450
Alkalinity (as CaCO3)	-224		280.00	56	20	60

AMS

DWB

30ml per 25 lts of liquor to be used, all liquor to be treated

17g per 25 lts of beer to be made, to be mixed in with the mash





Stouts, Porters and Milds

Quality, Consistency & Support

Ions (All figures in ppm)	Calcium AMS Chloride		Raw Liquor	Theoretical Wort Values Pre	Targets		
		Flake	Liquoi	Fermentation	Lower	Upper	
рН			7.13	N/A	N/A	N/A	
Nitrate			29.30	29.3	0	50	
Total Hardness (as CaCO3)			308.00	N/A	N/A	N/A	
Calcium		117.5	61.47	178.97	0120 _©	200	
Magnesium		0	2.88	2.88	0	50 (0 _
Chloride	34	210	27.63	271.63	250	350	000
Sulphate	47 _	0	23.45	70.45	50	150	0
Alkalinity (as CaCO3)	-96		280.00	184	100	200	
6	,0			A STILL	MIL		~ ~ _
MS O	13r	nl per 25 lts	of liquor to	be used, all liquo	r to be tre	eated	0
Calcium Chloride Flake -	11g	per 25 lts	of beer to be	made, to be mix	ed in with	the mas	h
0		5 7 35	المحال	1 / 1 / S			0

AMS

Calcium Chloride Flake

0 0 0

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Lagers and Pilsners

lons (All figures in ppm)	Lactic Acid 80%	Calcium Chloride Flake	Calcium Sulphate	Raw Liquor	Theoretical Wort Values Pre	Targets Lower Upper	
	2023		7 4 1 181		Fermentation		11 (1)
pH	0,0	12 9		7.13	N/A	N/A	N/A
Nitrate) 0	5 20		29.30	29.3	0 2	50
Total Hardness (as CaCO3)	3		1	308.00	N/A	N/A	N/A
Calcium		47	20 5	61.47	128.47	120	200
Magnesium	00		39	2.88	2.88	0	50
Chloride	200	-84	R	27.63	111.63	0	200
Sulphate			48	23.45	71.45	0	200
Alkalinity (as CaCO3)	-250			280.00	30	20	60
0			n		- 200		Trill

Lactic Acid 80%

Calcium Chloride Flake

Calcium Sulphate

25ml per 25 lts of liquor to be used, all liquor to be treated

4.3g per 25 Its of beer to be made, to be mixed in with the mash

2.3g per 25 Its of beer to be made, to be mixed in with the mash 2.3g per 25 lts of beer to be made, to be mixed in with the mash

Yours Sincerely

Paul Taylor

Laboratory Manager