

BEER-3

American Society of Brewing Chemists
BEER CHECK SERVICE

9/30/2017

Sub #	Specific Gravity	Alcohol	Real Extract	Color	Bitterness Units	Protein	Reducing Sugars	Iron	Refractive Index	Copper	Diacetyl	Total Acidity
10		3.86 B5		3.10 D1	9.60 E1							
18	1.00784 AX	3.90 BX	3.82 CX	3.10 D1	9.70 E1							
64	1.00789 A2	3.87 B1	3.70 C2									0.14 L1
83								* 0.16 H2				
138	1.00795 A2	3.92 B5	3.86 CX	3.10 D1	10.00 E1						10.000 K1	
143	1.00790 A2			2.70 D1	7.00 E1			0.02 H2				0.13 L1
147	1.00790 AX	3.92 BX	3.86 CX	2.90 DX	7.25 EX							0.27 LX
149	1.00615 A2	3.89 B5		3.10 DX	10.00 E1						0.000 KX	
153	1.00720 AX	4.03 BX		3.00 D1	12.00 E1						2.900 K1	
155	1.00800	3.85	* 5.80	* 9.20							4.000	
157	1.00786 A2	3.89 B5		2.99 D1	9.95 E1							
165	1.00795 AX	3.92 BX	3.86 CX	2.89 DX	7.63 EX						0.009 KX	LX
169	1.00805 A2	3.81 B5	3.84 CX	2.95 D1	9.70 E1	0.29 FX	1.16 G2	0.01 H2		0.03 J1	10.000 K1	0.10 L1
181	1.00800	3.86	3.85	2.95	6.20							
190	1.00790 A2	3.88 BX	3.82 CX	3.30 D1	8.30 E1						17.500 KX	
193	1.00773 A2	3.91 B5	3.80 CX	3.10 D1	8.40 E1							
198	1.00804 A2	3.92 B5		2.93 D1	9.45 E1							
201	1.00794 A2	3.91 BX	3.87 CX	2.80 D1	8.11 E1							0.18 L1
205	1.00794 A2	3.82 B2		2.50 D1	8.60 E1							
206	1.00608 AX	3.83 BX	3.81 CX	2.95 DX	9.10 EX						19.170 KX	
209	1.00770 A2	3.81 B5		2.70 D1	7.50 E1							
215	1.00789 A2	3.84 B5	3.98 CX	2.77 D1	8.40 E1							
220		4.00 BX		3.07 D1	9.90 E1							
223	1.00617 A2	3.76 B5		3.22 D1	9.20 E1						4.460 K1	
225	1.00787 A2	3.87 B5		3.08 D1	9.50 E1						14.000 KX	
228	* 0.99302 A2	3.82 B5	3.81 C3	3.00 D1	8.05 E1	0.29 FX						
229	1.00800 AX	* 3.53 BX	4.00 CX	* 1.50 DX	* 17.07 EX							

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<i>Sub #</i>	<i>Calcium</i>	<i>Sodium</i>	<i>pH</i>	<i>Chloride</i>	<i>Foam Collapse Rate</i>	<i>SO2</i>	<i>Sulfate</i>	<i>Yeast Fermentable Extract</i>	<i>Air</i>	<i>CO2 Volume</i>	<i>Ash</i>
10			3.88 O1								
18			4.04 O1			2.42 R2			0.20 UX	2.87 VX	
64						1.00 RX					0.09 WX
83											
138			4.03 O1			4.60 RX				2.90 VX	
143			4.00 O1		193 Q2				0.04 UX	2.92 VX	
147			4.04 OX								
149			4.02 O1							3.00 VX	
153											
155			3.99		*155					2.97	
157			3.93 O1						1.75 UX	3.00 V1	
165		47.9 NX	4.09 OX								
169	47.00 M1	27.0	4.15 O1	268.0 P1	Q2	2.00 R1		1.62 TX	6.50 UX	2.66 V1	0.09 W1
181		36.0	4.01								
190			4.11 O1							2.82 VX	
193			4.05 O1							2.64 VX	
198			4.05 OX							2.60 VX	
201			4.13 O1								
205			3.93 O1							2.84 V1	
206			4.06 O1							2.69 VX	
209			3.87 O1		195 QX					3.13 VX	
215			3.97 O1								
220											
223			3.75 O1							2.93 VX	
225			3.85 O1							2.54 VX	
228	48.00 M3		3.91 O1								
229			4.27 OX								

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<i>Sub #</i>	<i>Specific Gravity</i>	<i>Alcohol</i>	<i>Real Extract</i>	<i>Color</i>	<i>Bitterness Units</i>	<i>Protein</i>	<i>Reducing Sugars</i>	<i>Iron</i>	<i>Refractive Index</i>	<i>Copper</i>	<i>Diacetyl</i>	<i>Total Acidity</i>
N	23	24	14	23	23	2		2			10	5
Mean	1.00765	3.88	3.85	2.97	8.85	0.29		0.016			8.204	0.16
Min	1.00608	3.76	3.70	2.50	6.20	0.29		0.01			0.000	0.10
Max	1.00805	4.03	4.00	3.30	12.00	0.29		0.02			19.170	0.27
Std	0.00063	0.06	0.07	0.18	1.28	0.00		0.01			7.000	0.06

* Not Included in Mean

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<i>Sub #</i>	<i>Calcium</i>	<i>Sodium</i>	<i>pH</i>	<i>Chloride</i>	<i>Foam Collapse Rate</i>	<i>SO2</i>	<i>Sulfate</i>	<i>Yeast Fermentable Extract</i>	<i>Air</i>	<i>CO2 Volume</i>	<i>Ash</i>
N	2	3	23		2	4			4	15	2
Mean	47.50	37.0	4.01		194	2.50			2.12	2.83	0.09
Min	47.00	27.0	3.75		193	1.00			0.04	2.54	0.09
Max	48.00	47.9	4.27		195	4.60			6.50	3.13	0.09
Std	0.71	10.5	0.11		1	1.52			3.02	0.17	0.00

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<i>Sub #</i>	<i>Apparent Extract</i>	<i>Total VDK</i>	<i>Pentanedione</i>	<i>Free Amino Nitrogen</i>	<i>Viscosity</i>	<i>Dimethyl Sulfide</i>	<i>Total Haze</i>	<i>Extract of Orig. Wort</i>	<i>Iso-Alpha Acids for Beer</i>
10									
18	2.01 XX	0.02 YX						11.40 EEX	
64									
83									
138	2.04 X2	0.01 Y5	0.002 Z1			105.60 CCX		11.49 EE1	
143	2.03 XX	0.03 Y6		37.00 AA1					
147	2.04 XX							11.49 EEX	
149							46.00 DDX		
153							2.14 DDX		
155							0.94		
157							4.68 DD2		
165	2.04 XX	0.01 YX	0.003 ZX					11.48 EEX	
169	2.05 X1			55.00 AAX				11.26 EE1	
181		0.29							
190	2.03 X2	0.04 YX	0.013 ZX			20.20 CCX		11.36 EE1	
193	1.99 X2						55.00 DDX	11.40 EE1	
198									
201	3.92 X1							11.47 EE2	
205									
206	2.03 XX	0.02 YX	0.000 ZX						
209									
215									
220									
223									
225							83.00 DDX		
228	2.04 X2	* 0.10 Y4						11.25 EE1	
229	* 2.29 XX								

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<i>Sub #</i>	<i>Apparent Extract</i>	<i>Total VDK</i>	<i>Pentanedione</i>	<i>Free Amino Nitrogen</i>	<i>Viscosity</i>	<i>Dimethyl Sulfide</i>	<i>Total Haze</i>	<i>Extract of Orig. Wort</i>	<i>Iso-Alpha Acids for Beer</i>
N	10	6	4	2		2	6	9	
Mean	2.03	0.02	0.005	46.00		62.90	31.96	11.40	
Min	1.99	0.01	0.000	37.00		20.20	0.94	11.25	
Max	2.05	0.04	0.013	55.00		105.60	83.00	11.49	
Std	0.02	0.01	0.006	12.73		60.39	34.43	0.09	

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