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**Deacidification trial using Potassium Carbonate**

To decrease TA by 0.1g/100mL

if $\text{pH} \geq 3.45$, use 0.92 g/Lif $\text{pH} \leq 3.45$, use 0.46 g/L

Note: Some simply use 0.62 g/L regardless of pH.

Lab solution: 2.3% Potassium carbonate (2.3g/100mL)2mL of 2.3% per 100ml = 0.46 g K_2CO_3 /L

pH \leq 3.45	TA	pH \geq 3.45
.25 mL/100mL	.012 g/100mL	.5 mL/100mL
.50	.025	1.0
1.0	.050	2.0
1.5	.075	3.0
2.0 (0.46g/L)	.100	4.0 (0.92g/L)

Method

1. Measure TA and pH of wine
2. Measure 100 mL to several 4oz bottles. (Alternatively, can do 50mL samples in 2oz bottles)
3. Label each bottle and lab sheet with wine type and potential acid correction.
4. Mark one bottle as a "Control" and pipet appropriate K_2CO_3 additions to each of the remaining bottles.
5. If wine is to be cold stabilized, refrigerate at least 24 hours, then bring to room temperature, check pH/TA, and taste.
6. Report selected TA and pH with the g/L (or #/1000 gals) K_2CO_3 necessary.

Note: When doing a pH adjustment for ML cultures, a titration using one of these K_2CO_3 , potassium carbonate solutions, while monitoring the pH would be a good way to estimate the necessary addition. Alternatively you can just "decrease the TA" with weighed out material and check pH as you go.



Density equivalents

1.0 g/L = 0.10 g/100 mL
 = 100 g/hL
 = 100 mg/100mL
 = 1000 mg/L
 = 1000 ppm
 = 1.0 mg/mL
 = 1000 µg/mL
 = 0.1% (wt/vol)

Weight equivalents

1.00 g = 1000 mg
 1.00 mg = 0.001g
 1.0 µg = 0.001 mg
 1.0 kg = 1000 g
 1.0 kg = 2.2 lbs
 0.5 kg = 500 g = 1.1 lbs
 454 g = 1 lb
 10.0 kg = 22 lbs
 1 ton = 2000 lbs
 1 ton = 907.15 kg
 1 lb = 16 oz
 1 oz = 28.35 g

Volume equivalents

1 cL/hL = 10 mL/hL
 = 10 mL/ 26 gal
 = 385 mL /1000 gal

Bottle chart

1 Bottle 750 mL = 0.198 gal
 12 Bottles 750 mL = 2.378 gal
 1 Bottle 1.5 L = 0.397 gal

Weight / Volume equivalents

1 lb/1000gal = 454 g/1000 gal
 = 0.45 g/gal
 = 0.12 g/L
 = 120 ppm
 = 12 g/hL

2 lbs/1000gal = 0.90 g/gal
 = 0.24 g/L
 = 240 ppm
 = 24 g/hL

1 g/hL = 1 g/ 26.42 gal
 = 0.038 g/gal
 = 0.084 lb/1000 gal

Volume equivalents

1 L = 1000 mL
 1 dL = 10 L
 1 hL = 100 L
 1 hL = 26.4 gal
 1 mL = 1000 µl
 1 cL = 10 mL
 25hL = 660 gal

1 L = 33.8 oz = 1000 mL
 1 gal = 128 oz = 3785 mL = 3.78 L
 1 qt = 32 oz = 946 mL = 0.946 L
 1 pt = 16 oz = 473 mL = 0.473 L
 1 cup = 8 oz = 237 mL
 1/2 cup = 4 oz = 118 mL
 1/4 cup = 2 oz = 59 mL
 1/8 cup = 1 oz = 29.57 mL

Fill level chart by temperature



Wine temperature	Fill level from top	Ullage w/45mm Cork	Ullage w/49mm Cork
72 °F	61.3 mm	15.3 mm	11.3 mm
71 °F	61.8 mm	15.8 mm	11.8 mm
70 °F	62.4 mm	16.4 mm	12.4 mm
69 °F	62.9 mm	16.9 mm	12.9 mm
68 °F	63.5 mm	17.5 mm	13.5 mm
67 °F	64.1 mm	18.1 mm	14.1 mm
66 °F	64.6 mm	18.6 mm	14.6 mm
65 °F	65.2 mm	19.2 mm	15.2 mm
64 °F	65.7 mm	19.7 mm	15.7 mm
63 °F	66.3 mm	20.3 mm	16.3 mm
62 °F	66.8 mm	20.8 mm	16.8 mm
61 °F	67.4 mm	21.8 mm	17.4 mm
60 °F	67.9 mm	21.9 mm	17.9 mm
59 °F	68.5 mm	22.5 mm	18.5 mm
58 °F	69.0 mm	23.0 mm	19.0 mm
57 °F	69.6 mm	23.6 mm	19.6 mm



Wine conversion chart Standard bottle sizes

Bottle size	Bottles per case	Gallons per case
1.5 liters	6	2.378 gal = 9 liters
750 milliliters	12	2.378 gal = 9 liters
750 milliliters	6	1.189 gal = 4.5 liters
375 milliliters	12	1.189 gal = 4.5 liters
375 milliliters	24	2.378 gal = 9 liters
187 milliliters	24	1.189 gal = 4.49 liters
187 milliliters	48	2.371 gal = 8.98 liters
100 milliliters	60	1.585 gal = 6 liters
500 milliliters	6	.793 gal = 3 liters

Conversion formulas

1 liter = 0.264172 gallons
 Liters ÷ 3.78544 = gallons in case
 Gallons x 3.78544 = liters
 750 milliliter bottle = .198 gallons

Red juice DAP additions (grams)



Tons	Gallons	25ppm	50ppm	75ppm	100ppm	125ppm	150ppm
0.5	83	8	16	24	31	39	47
0.75	124	12	24	35	47	59	71
1	165	16	31	47	63	78	94
1.5	248	24	47	71	94	118	141
2	330	31	63	94	125	157	188
2.5	413	39	78	118	157	196	235
3	495	47	94	141	188	235	282
3.5	578	55	110	165	210	274	329
4	660	63	125	188	251	314	376
4.5	743	71	141	212	282	353	423
5	825	78	157	235	314	392	470
5.5	908	86	172	259	345	431	517
6	990	94	188	282	376	470	564
6.5	1073	102	204	306	408	509	611
7	1155	110	219	329	439	549	658
7.5	1238	118	235	353	470	588	705
8	1320	125	251	376	502	627	752
8.5	1403	133	266	400	533	666	799
9	1485	141	282	423	564	705	846
9.5	1568	149	298	447	596	745	893
10	1650	157	314	470	627	784	941
10.5	1733	165	329	494	658	823	988
11	1815	172	345	517	690	862	1035
11.5	1898	180	361	541	721	901	1082
12	1980	188	376	564	752	941	1129
12.5	2063	196	392	588	784	980	1176
18	2970	282	564	846	1129	1411	1693
18.5	3053	290	580	870	1160	1450	1740
19	3135	298	596	893	1191	1489	1787
19.5	3218	306	611	917	1223	1528	1834
20	3300	314	627	941	1254	1568	1881
20.5	3383	321	643	964	1285	1607	1928
21	3465	329	658	988	1317	1646	1975
21.5	3548	337	674	1011	1348	1685	2022
22	3630	345	690	1035	1379	1724	2069

DAP in grams = (gallons x 3.8L x ppm)/1000