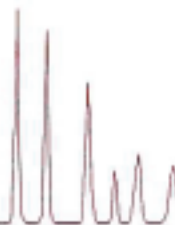


The Barrel Mill  
Post Office Box 348  
Avon, MN 56310

Samples Received  
25 September 2007 10:04 pm  
Analysis Reported  
5 October 2007 6:28 pm

Analyte	Result	Analysis Date	Method Reference
<b>709251037 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #1</b>			
oak volatiles panel			
trans-Oak lactone (GC/MS)	2 ug/L	10/5/07	
cis-Oak lactone (GC/MS)	2 ug/L	10/5/07	
vanillin (GC/MS)	564 ug/L	10/5/07	
furfural (GC/MS)	2639 ug/L	10/5/07	
5-methylfurfural (GC/MS)	215 ug/L	10/5/07	
guaiacol (GC/MS)	3 ug/L	10/5/07	
4-methylguaiacol (GC/MS)	6 ug/L	10/5/07	
eugenol (GC/MS)	5 ug/L	10/5/07	
isoeugenol (GC/MS)	3 ug/L	10/5/07	
<b>709251038 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #2</b>			
oak volatiles panel			
trans-Oak lactone (GC/MS)	2 ug/L	10/5/07	
cis-Oak lactone (GC/MS)	2 ug/L	10/5/07	
vanillin (GC/MS)	1008 ug/L	10/5/07	
furfural (GC/MS)	3208 ug/L	10/5/07	
5-methylfurfural (GC/MS)	262 ug/L	10/5/07	
guaiacol (GC/MS)	6 ug/L	10/5/07	
4-methylguaiacol (GC/MS)	13 ug/L	10/5/07	
eugenol (GC/MS)	6 ug/L	10/5/07	
isoeugenol (GC/MS)	5 ug/L	10/5/07	
<b>709251039 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #3</b>			
oak volatiles panel			
trans-Oak lactone (GC/MS)	2 ug/L	10/5/07	
cis-Oak lactone (GC/MS)	1 ug/L	10/5/07	
vanillin (GC/MS)	1796 ug/L	10/5/07	
furfural (GC/MS)	6363 ug/L	10/5/07	
5-methylfurfural (GC/MS)	552 ug/L	10/5/07	
guaiacol (GC/MS)	10 ug/L	10/5/07	
4-methylguaiacol (GC/MS)	45 ug/L	10/5/07	
eugenol (GC/MS)	9 ug/L	10/5/07	
isoeugenol (GC/MS)	10 ug/L	10/5/07	
<b>709251040 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #4</b>			



**709251040 French Oak Medium Toast (10 g/L equivalent 7 days soak  
in neutral white wine ~13% alc. v/v) Spiral #4**

**oak volatiles panel**

trans-Oak lactone (GC/MS)	2 ug/L	10/5/07
cis-Oak lactone (GC/MS)	1 ug/L	10/5/07
vanillin (GC/MS)	2536 ug/L	10/5/07
furfural (GC/MS)	5373 ug/L	10/5/07
5-methylfurfural (GC/MS)	230 ug/L	10/5/07
guaiacol (GC/MS)	21 ug/L	10/5/07
4-methylguaiacol (GC/MS)	60 ug/L	10/5/07
eugenol (GC/MS)	13 ug/L	10/5/07
isoeugenol (GC/MS)	19 ug/L	10/5/07

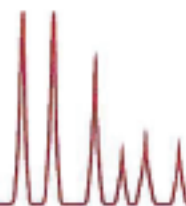
Gordon Burns  
Technical Director



The results in this report relate only to samples as submitted.

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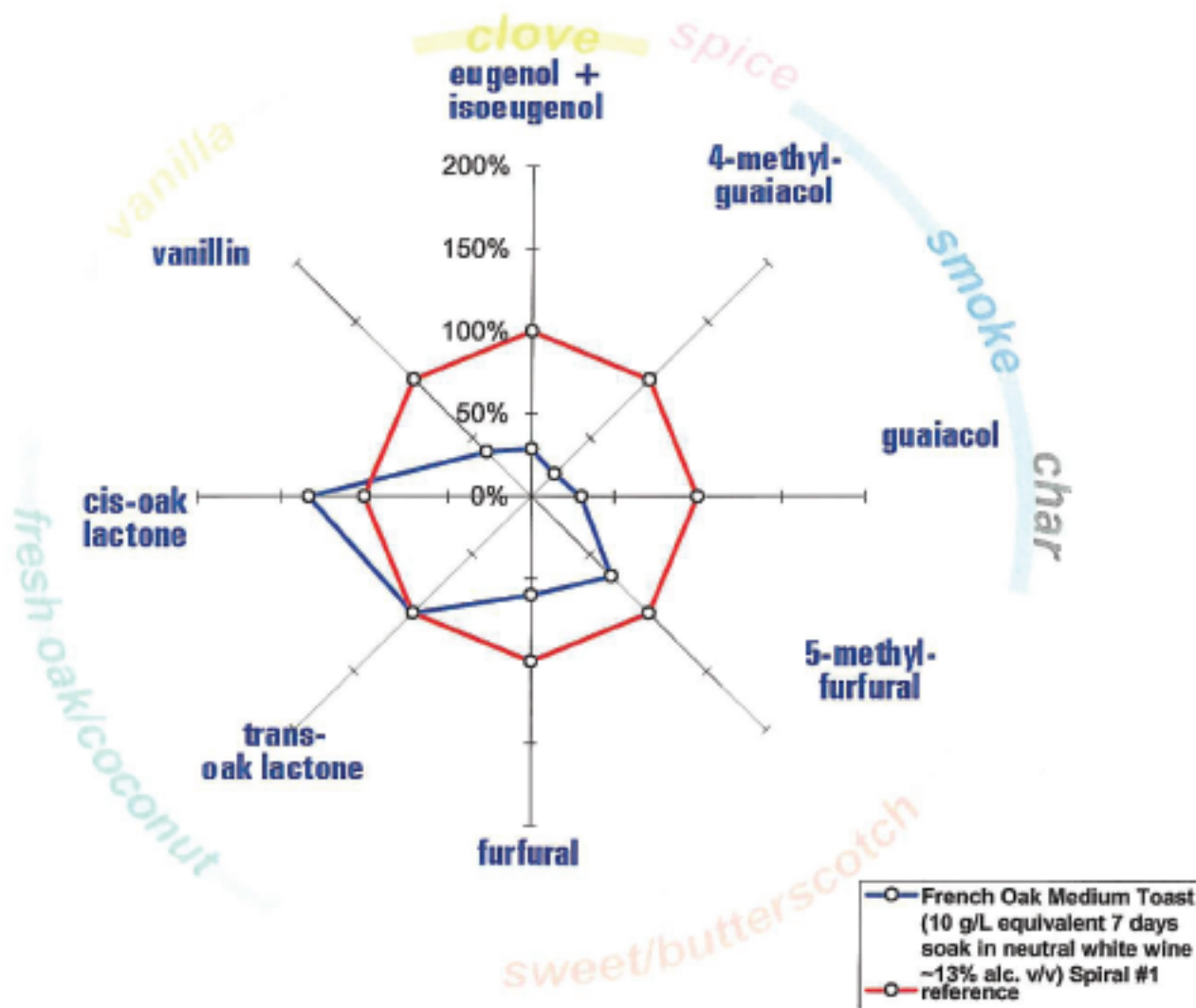


The Barrel Mill  
Post Office Box 348  
Avon, MN 56310

Samples Received  
25 September 2007

Analyses Reported  
05 October 2007

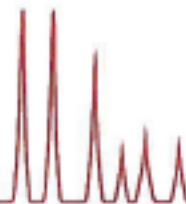
709251037 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #1



eugenol (ug/L)	5	furfural (ug/L)	2639
isoeugenol (ug/L)	3	trans-oak lactone (ug/L)	2
4-methylguaiacol (ug/L)	6	c/s-oak lactone (ug/L)	2
guaiacol (ug/L)	3	vanillin (ug/L)	564
5-methylfurfural (ug/L)	215		

**Comments:** The reference is an average of all samples in Group# 305102

Results relate only to the items tested. The report shall not be reproduced except in full without the approval of the laboratory.

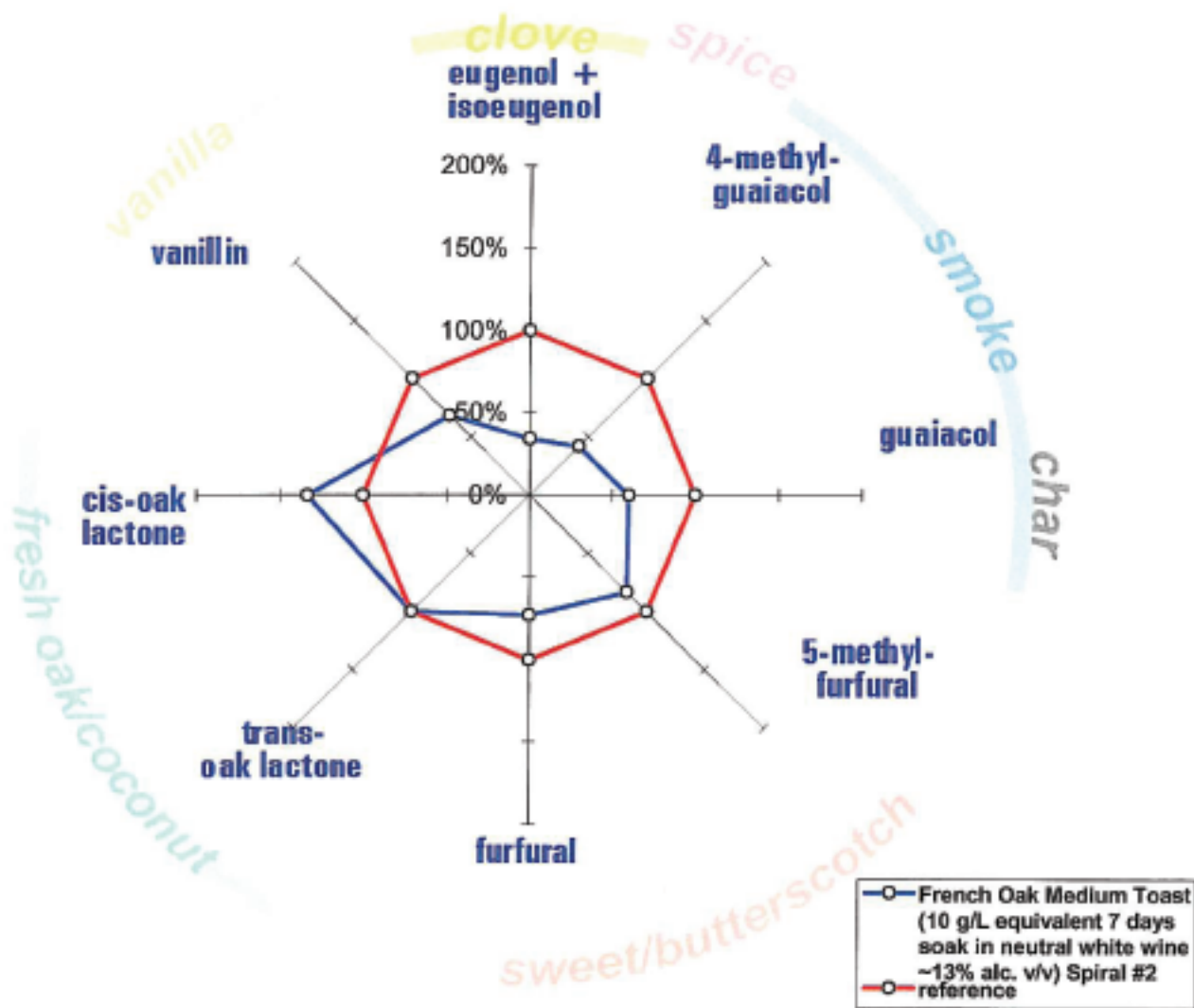


The Barrel Mill  
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Avon, MN 56310

Samples Received  
25 September 2007

Analyses Reported  
05 October 2007

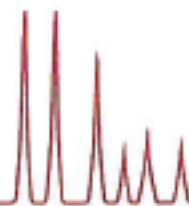
709251038 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #2



eugenol (ug/L)	6	furfural (ug/L)	3208
isoeugenol (ug/L)	5	trans-oak lactone (ug/L)	2
4-methylguaiacol (ug/L)	13	cis-oak lactone (ug/L)	2
guaiacol (ug/L)	6	vanillin (ug/L)	1008
5-methylfurfural (ug/L)	262		

**Comments:** The reference is an average of all samples in Group# 305102

Results relate only to the items tested. The report shall not be reproduced except in full without the approval of the laboratory.

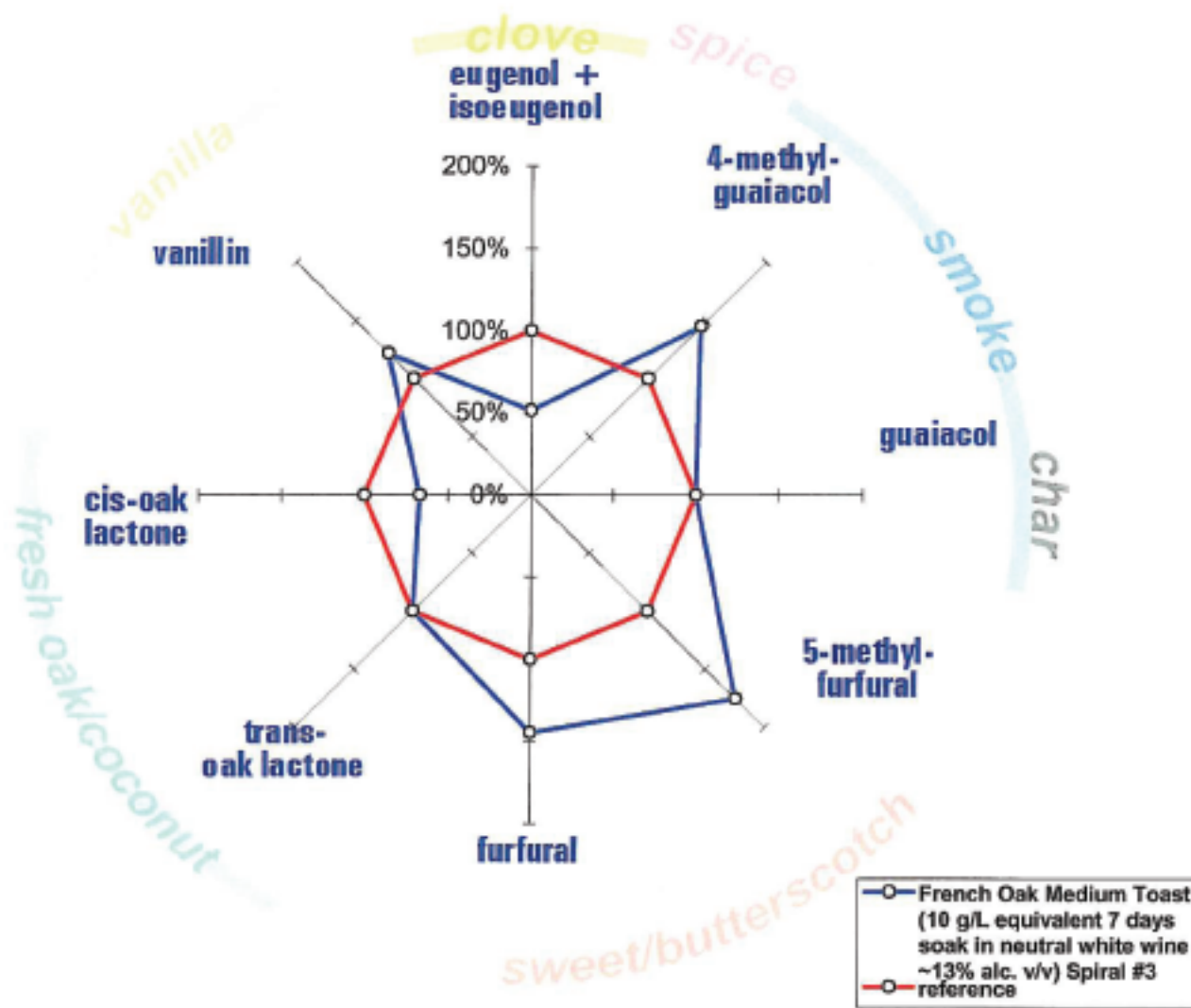


The Barrel Mill  
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Avon, MN 56310

Samples Received  
25 September 2007

Analyses Reported  
05 October 2007

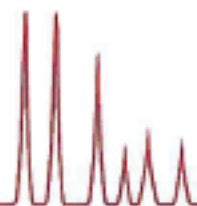
709251039 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #3



eugenol (ug/L)	9	furfural (ug/L)	6363
isoeugenol (ug/L)	10	trans-oak lactone (ug/L)	2
4-methylguaiacol (ug/L)	45	cis-oak lactone (ug/L)	1
guaiacol (ug/L)	10	vanillin (ug/L)	1796
5-methylfurfural (ug/L)	552		

**Comments:** The reference is an average of all samples in Group# 305102

Results relate only to the items tested. The report shall not be reproduced except in full without the approval of the laboratory.

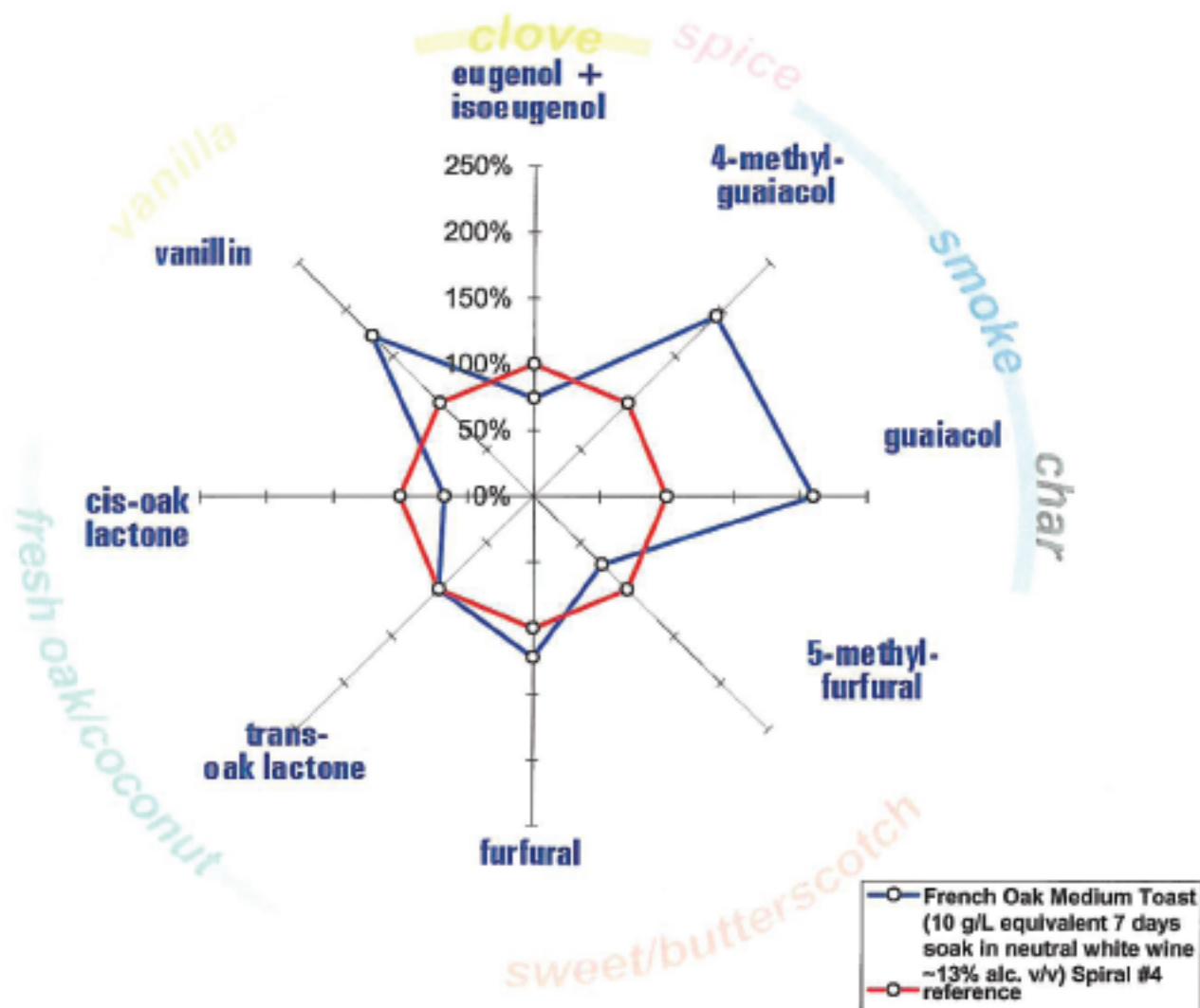


The Barrel Mill  
Post Office Box 348  
Avon, MN 56310

Samples Received  
25 September 2007

Analyses Reported  
05 October 2007

709251040 French Oak Medium Toast (10 g/L equivalent 7 days soak in neutral white wine ~13% alc. v/v) Spiral #4



eugenol (ug/L)	13	furfural (ug/L)	5373
isoeugenol (ug/L)	19	trans-oak lactone (ug/L)	2
4-methylguaiacol (ug/L)	60	cis-oak lactone (ug/L)	1
guaiacol (ug/L)	21	vanillin (ug/L)	2536
5-methylfurfural (ug/L)	230		

**Comments:** The reference is an average of all samples in Group# 305102

Results relate only to the items tested. The report shall not be reproduced except in full without the approval of the laboratory.