

**Response absorbance****Whole Model****Effect Tests**

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
treatment	1	1	0.03591200	23.9426	<.0001*
gut	2	2	0.03151365	10.5051	0.0002*
treatment*gut	2	2	0.00778468	2.5950	0.0853

**treatment****Least Squares Means Table**

Level	Least Sq Mean	Std Error	Mean
boil	0.03529630	0.00745336	0.035296
nonboil	0.08740741	0.00760705	0.089115

**gut****Least Squares Means Table**

Level	Least Sq Mean	Std Error	Mean
forgut	0.06077778	0.00912846	0.060778
hindgut	0.03161111	0.00940941	0.030941
midgut	0.09166667	0.00912846	0.091667

**treatment\*gut****LSMeans Differences Student's t**

$\alpha = 0.050$   $t = 2.01174$

Level		Least Sq Mean
nonboil,midgut	A	0.13288889
nonboil,forgut	B	0.08633333
boil,midgut	B C	0.05044444
nonboil,hindgut	C	0.04300000
boil,forgut	C	0.03522222
boil,hindgut	C	0.02022222

Levels not connected by same letter are significantly different.

## ~~Class 2 data (digestion lab) By (treatment, gut)~~

	treatment	gut	N Rows	Mean(absorbance)	Std Err(absorbance)
1	boil	forgut	9	0.035	0.010
2	boil	hindgut	9	0.020	0.005
3	boil	midgut	9	0.050	0.010
4	nonboil	forgut	9	0.086	0.015
5	nonboil	hindgut	8	0.043	0.011
6	nonboil	midgut	9	0.133	0.020