Insert Title

Enter Name

Insert Date

Abstract

A brief description of the purpose, procedure, and conclusions.

Calculations

Insert a figure (scan) of your calculations from your notebook. To insert a figure, with a caption see the iron analysis lab or see: http://rmarkdown.rstudio.com/authoring_basics.html

The calculations to include are:

1. Percentage of each fatty acid
2. Total Mass of each triglyceride
3. Molar Mass of each triglyceride
4. Moles of each triglyceride
5. Moles C=C double bonds
6. Moles H2
7. Conversion from moles H2 to L
8. % Efficiency Calculations
9. Average (if using a program, write what program was used); If using R to calulcate see: http://www.r-tutor.com/elementary-statistics/numerical-measures/mean
10. Standard Deviation (if using a program, write what program was used); If using R to calculate see: http://www.r-tutor.com/elementary-statistics/numerical-measures/standard-deviation
11. 95% Confidence Interval

Results

Text that describes both your observations as well as commentary on your GC/FAME results and your hydrogenation results. Look at Iron_Analysis markdown file on how to include a picture with a caption in your report, the figure should be of your FAME chromatogram.

Discussion

Analysis of your results. See page 9.10 in your lab manual for more detailed information on what this section should include.

FYI: There is a built in spell check for your R markdown file under the Edit menu in Rstudio. you might want to use that before knitting to PDF :)

Table 1: A lovely caption for the table

FAME Label	**ID Label**	**Rt Label (units)**	**Area Label (units)**	**Mass Percent Label**	**ClassAverage +/- 95% CI (units)**	**Published Mass Percent**
16:0	Acid A	4	100	7	10+/-1	7.9-10.2
18:0	Acid B	6	200	13	20 +/- 1	4.8-6.1
18:1	Acid C	8	300	20	30 +/- 1	35.9-42.3
18:2	Acid D	10	400	27	40 +/- 1	41.5-47.9
18:3	Acid E	12	500	33	50 +/- 1	0.3-0.4