Limiting Reagents Post Lab Grade Sheet **Name: Period:**

**General**

* Headers not filled out
* Footers not signed/dated
* Sections not labeled
* Not adequate spacing
* Lack of Professionalism/Care/Thought
* Extra sections included that were not asked for
* Other:

**Observations/Data Tables**

* Missing either qualitative or   
  quantitative data
* No title on data tables
* Titles not descriptive
* Too small/squished/messy
* Observations lacking detail or content

**Conclusion**

* Not in 3rd person
* Not in past tense
* Not in complete sentences, paragraph style
* Final results not reported
* Sources of error
  + Not mentioned
  + Mentioned not explained
  + Not explained w/adequate detail
  + Missing important/key/obvious ones
  + Incorrect
* Limits in lab design
  + Not mentioned
  + Mentioned not explained
  + Not explained w/adequate detail
  + Missing important/key/obvious ones
  + Incorrect
* Relating findings back to basic principles of chemistry
  + Not mentioned
  + Mentioned not explained
  + Not explained w/adequate detail
  + Missing important/key/obvious ones
  + Incorrect
* Further experiments
  + Not mentioned
  + Mentioned not explained
  + Not explained w/adequate detail
  + Missing important/key/obvious ones
  + Incorrect
* Related to real life
  + Not mentioned
  + Mentioned not explained
  + Not explained w/adequate detail
  + Missing important/key/obvious ones
  + Incorrect
* Improvements to the lab
  + Not mentioned
  + Mentioned not explained
  + Not explained w/adequate detail
  + Missing important/key/obvious ones
  + Incorrect
* Level of detail/thought/care
  + Significant
  + Sufficient
  + Lacking

**Discussion Questions**

|  |  |  |
| --- | --- | --- |
| **General** | 5 |  |
| **Obs/Data Tables** | 15 |  |
| **Conclusion** | 30 |  |
| **Discussion Qs** | 20 |  |
| ***Total*** | 70 |  |

* Questions copied from handout
* Questions not copied, but not paraphrased into your answer

|  |  |  |
| --- | --- | --- |
| * Incorrect   + 1   + 2   + 3   + 4   + 5A   + 5B   + 5C | * Insufficient   + 1   + 2   + 3   + 4   + 5A   + 5B   + 5C | **1)** SrCO3 = ppt, Na+ and Cl- = spectator  **2)** Boil filtrate to drive off H2O, leaves you with NaCl  **3)** % yield would end up too high – would still be wet  **4)** % yield of ppt would be too low, would slip under filter   paper and be lost. % yield of NaCl would be too high   because contaminated with ppt.  **5)** a) Na2CO3 = XS, SrCl2 = LR  b) 9.97g SrCO3, 7.89g NaCl  c) discuss her yield compared to yours, better or worse   mentioned, show calculation of her NaCl yield |

* Missing Questions: