Experiment 15 Worksheet: Paper Chromatography of Amino Acids

Purpose: (*A statement should be made here regarding what your experiment is designed to accomplish.*)

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Procedure: (*Describe here how you went about completing your experiment. Use enough detail that someone could repeat it if necessary. Also reference any books or manuals you may have used to assist you.*)

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Data:

(*Complete the Table using experimental results***)**

Amino Acid	Distance traveled (cm)	Average Distance traveled (cm)	R_f Value(s)
_____ (AA1)			
_____ (AA2)			
_____ (AA3)			
Left Elbow			
Right Elbow			
Left Palm			
Right Palm			

Calculations:

Using experimental R_f values of the three standard amino acids, and the published amino acid Rf values listed in the background, create a calibration graph using the graph paper provided at the back of your lab manual. (You can refer to the instructions regarding how to create and use a calibration graph in the Atomic Spectra experiment page 13-14 if necessary)

Show how you calculated at least one of the R_f values listed in the tables:

For each of the amino acid spots in the table above, correct the R_f values and attempt to identify the amino acid by comparison of the corrected values to the literature R_f values given in the introduction.

Amino Acid Spot #	Corrected R_f Values	Amino Acid Identities	Explanation
Left Elbow			
Right Elbow			
Left Palm			
Right Palm			

Conclusions: (*Summarize your results here and discuss possible errors that may have occurred during the testing.*)