

AAA 2001: a collaborative study from the ABRF AAA Research Group.

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The AAA Research Group of the ABRF periodically provides member laboratories with test samples in order to assist members in maintaining and improving the quality of AAA and assess the reliability of AAA. The latest study consists of two parts: Internet-based survey of equipment and techniques currently used for AAA, and experimental data from this year's test sample. The experimental part of the 2001 study focused on quantitation and identification of proteins. The participating laboratories received solutions of 4 pure proteins for the determination of their concentration by AAA as well as by a colorimetric assay (BCA, Bradford, or similar). Data obtained will be used to examine the use of AAA for determining of the exact amount of protein in the sample and the use of compositional data to identify the protein. The relative precision and accuracy of the colorimetric assays will be compared with the AAA values. The comparison of the results of this study with the results from previous studies show changes and improvements in the practice of AAA.