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## COMPARISON OF ALEXA 488, DR110 AND FITC CONJUGATED TO ANTIBODY FOR MICROSCOPIC ASSAYS<sup>2</sup>

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**Abstract:** The fluorescent dyes DR110 and Alexa 488 were obtained. Synthetic fluorescent dyes that are conjugated to antibodies are useful tools in microscopic imaging. Alexa 488, DR110 and fluorescein 5(6)-isothiocyanate (FITC) were compared in applications using various conjugates with anti-sheep IgG antibody. Antibody-fluorescent dye conjugates with variety degree of labelling were obtained. Their fluorescence characteristics were observed by fluorescence spectrophotometer and fluorescence microscope. Brightness, photobleaching and background of the fluorescent conjugates were examined. Alexa 488 labeled antibody has brighter fluorescence and negligible photobleaching and background in microscopic assays, then DR110 and last FITC dye.

**Keywords:** Alexa 488, DR110, FITC, anti-sheep IgG antibody, fluorescent conjugates, microscopy.

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