

PATENT NO. EP 3191844

ELECTROCHEMICAL BIOSENSOR AND A METHOD OF SENSING ALBUMIN AND ITS COMPLEXES

APPLICATION NO. EP16792263A

APPLICANT

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An electrochemically active device for collecting and retaining a biological sample with a bioanalyte, the device provided with at least a two-electrode member and an albumin-binding and an electrochemically active receptor in chemical contact with the two-electrode members and the biological sample. The present invention also provides a point-of-care biosensor with the device of the present invention and a method for measuring a bioanalyte in a biological sample. The device, point-of-care biosensor and the method of the present invention facilitate accurate measurements concentrations of urine albumin, human serum albumin (HSA), glycated albumin (GA) and methemalbumin (MHA) by determining redox current values in reduced volumes of biological samples.

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CLAIM 1

An electrochemically active device for collecting and retaining a biological sample, comprising:

- (i) at least a pair of conductive tracks disposed on a substrate;
- (ii) at least a two-electrode member connected to said conductive tracks; and
- (iii) an albumin-binding and an electrochemically active receptor, said receptor in chemical contact with said at least two-electrode member and a biological sample with a bioanalyte.