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(54) Title: METHOD FOR MEASUREMENT OF CALCIUM IONS

(57) Abstract: The present invention relates to a reagent for determination of calcium and to a determination method using that reagent. More particularly, it relates to a reagent for determination of calcium comprising a mono-nitro substituted BAPTA-type chelator (BAPTA = 1,2-bis(2-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid). A determination method which permits accurate determination of calcium in a sample, such as a blood sample (e.g. whole blood, plasma or serum) or any other aqueous liquid sample (e.g. cerebrospinal fluid, lymph, salivary juice or urine) and thus is especially useful for clinical diagnoses as described.

