

Pefachrome[®] C1E

Application: Pefachrome[®] C1E, a highly sensitive chromogenic substrate for C1-esterase, is used for the determination of C1-esterase inhibitor (C1INH) in plasma. C1INH is a regulatory protein that acts as an inhibitor of various serine proteases in the complement system, the kallikrein-kinin system, the coagulation cascade and in fibrinolysis.

Formula: CH₃CO-Lys(Cbo)-Gly-Arg-pNA·AcOH

Principle: C1INH activity is determined by adding an excess of C1-esterase to a plasma sample. A complex of C1-esterase and C1INH is formed and the residual C1-esterase is determined spectrophotometrically by using Pefachrome[®] C1E.

MW: 715.8

Storage: May be used by the expiry date given on the label when stored unopened, protected from moisture, in the dark, 2-8°C. Avoid contamination of the reagents by micro-organisms. Shipment of product does not require cooling during the time of transportation.

Material required but not provided:

Buffer, reference material

Buffer: 50 mM Tris-imidazole buffer pH 8.4, 300 mM NaCl

Assay: Suggested protocol for the determination of C1-INH:

0.100 ml Plasma
0.100 ml C1-esterase
⇒ incubate for 5 min at 37 °C
0.700 ml buffer
0.100 ml Pefachrome[®] C1E (4 mM in water)
=> Determination of ΔOD/min at 405 nm

Package size: Vial containing 10 μmol
Bulk [g]

Code: 087-31
087-03

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