

Do wszystkich Wykonawców

Dot. postępowania w trybie przetargu nieograniczonego na dostawę odczynników do badań laboratoryjnych

1. Pytanie - dotyczy części nr 3. Czy Zamawiający wyrazi zgodę na zaoferowanie testu według załączonej metodyki?

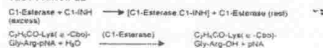
TECHNOCHROM® C1-INH

PRODUCT DESCRIPTION

INTENDED USE

Diagnosis of hereditary angioneurotic edema (HANE). The C1-esterase inhibitor (C1-INH) is a regulatory protein that functions as an inhibitor of several enzyme proteases in the complement system. The calibration curve and the calibration curve are in the laboratory.

TEST PRINCIPLE



COMPOSITION

Reagent kit for 30 photometric C1-Esterase inhibitor determinations.

ml	reagent	other data
1 x 3	Substrate C1-I	10 µmol, AuCl ₃ , C ₁₂ H ₂₂ O ₁₁ (s) (C1-Esterase)
1 x 3	C1-Esterase	10 µmol, AuCl ₃ , C ₁₂ H ₂₂ O ₁₁ (s) (C1-Esterase)
1 x 1	Calibration Reference	10 µmol, AuCl ₃ , C ₁₂ H ₂₂ O ₁₁ (s) (C1-Esterase)
1 x 1	Calibration Control A	10 µmol, AuCl ₃ , C ₁₂ H ₂₂ O ₁₁ (s) (C1-Esterase)
1 x 1	Calibration Control N	10 µmol, AuCl ₃ , C ₁₂ H ₂₂ O ₁₁ (s) (C1-Esterase)
1 x 25	Sample Buffer A	10 µmol, AuCl ₃ , C ₁₂ H ₂₂ O ₁₁ (s) (C1-Esterase)
1 x 20	Reaction Buffer B	10 µmol, AuCl ₃ , C ₁₂ H ₂₂ O ₁₁ (s) (C1-Esterase)

MATERIAL REQUIRED (not supplied with the kit)

- Pipettes
- Distilled water
- For the end-point method: 50 % acetic acid

WARNING AND PRECAUTIONS

- For in vitro diagnostic use
- All reagents and plasma samples and products have to be regarded as potentially infectious and handled with appropriate care and in compliance with the country regulations in force and must be disposed of in the same way as hospital waste
- Each single donor plasma and each lot of Calibration Control are tested and found negative for HIV, HBV, HCV, and HPA. However, universal precautions (treating all human source materials as if potentially infectious) should be observed

STABILITY AND STORAGE

The expiry date printed on the label applies to storage of the unopened bottles at +2...+8 °C.

Stability after reconstitution:

The reconstituted reagents are stable for 6 hours at reaction temperature.

Reconstituted reagents may be stored at -20 °C.

The vials can be used for up to 12 months. Upon storage, caps should be screwed tightly.

Plasma samples should be used within one month.

DO NOT FREEZE THE SUBSTRATE-SUFFER MIXTURE

TEST PROCEDURE

PREPARATION OF PLASMA SAMPLES

Plasma separation:

Take 5 parts of venous blood and 1 part sodium citrate solution (0.11 mol/L) and centrifuge for 15 minutes at a RCF of at least 2500 (corresponding to 3000 rpm). The plasma samples may not be stored at room temperature for more than three hours; otherwise the sample has to be frozen immediately after centrifugation.

Sample preparation:

Before testing the plasma samples are diluted with Sample Buffer A at a ratio of 1:11 (0.05 mL sample + 0.50 mL Buffer A). Samples with C1-INH activity > 115% should be diluted 1:22.

PREPARATION OF REAGENT

All reagents including distilled water should have reacted upon temperature before use. The lyophilized reagents are dissolved in the volume of distilled water indicated and are ready for use after 10 minutes. For standardization keep a reconstitution time of 30 min is recommended.

PERFORMANCE OF THE TEST

C1-Esterase and the diluted sample are kept at room temperature, the Substrate-Buffer mixture at 37 °C. Measurements are done at 37 °C.

Mixing the Substrate C1-I with reaction Buffer B

Kinetic determination	Substrate C1-I	End-point determination
1 part	1 part	1 part
	Reaction Buffer B	4 parts

Pipetting scheme: Pipette into plastic tubes or cuvettes.

Kinetic determination	Substrate C1-I	End-point determination
100 µL	100 µL	100 µL
5 minutes	5 minutes	5 minutes
600 µL	600 µL	600 µL
	Reaction Buffer B	Reaction Buffer B
	100 µL	100 µL
	100 µL	100 µL

The extinction increase is measured at 405 nm at 37 °C. During 4 min the reaction is linear.

LIMITATION OF THE TEST

In inflammatory processes the activity of the acute phase protein C1-INH may be far above the normal value. It is recommended to test samples with values above 115% C1-INH once more in a dilution of 1:22.

ANALYSES RESULTS

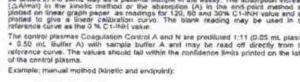
CALCULATION OF THE RESULTS

To calculate a reference curve 3 serial dilutions of Calibration Reference are prepared and tested together with an additional blank (sample Buffer A) reading.

Produce the Calibration Reference 1:11 with sample Buffer A (0.05 mL plasma + 0.50 mL Buffer A). From this produce a series of dilutions (1:1, 1:2, 1:4) also with sample Buffer A (0.11 dilution corresponds to the 1:11 production). This series should be tested in the same way as a patient sample in the assay. The extinction increase (ΔExt) in the sample control or the extinction (Ext) in the end-point method are plotted on linear graph paper as readings for 120, 60 and 30% C1-INH value and are plotted to give a linear calibration curve. The slope reading may be used in the reference curve as the 0 % C1-INH value.

The control plasma Calibration Control A and N are produced 1:11 (0.05 mL plasma + 0.50 mL Buffer A) with sample Buffer A and may be read off directly from the reference curve. The values should fall within the confidence limit printed on the label of the control plasma.

Example: manual method (kinetic and endpoint)



All samples diluted 1:11 can be directly read off from the calibration curve.

For samples diluted other than 1:11 the % activity read off from the calibration curve has to be converted as follows:

% C1-INH (calibration curve) x actual dilution ratio = % C1-INH of sample

Thus in sample diluted 1:22 the C1-INH activity is twice the value read off from the calibration curve.

REFERENCE RANGE

0.70-1.30 U C1-INH/mL (70-130 % of normal)

STANDARDIZATION

The Reference Standard C1-INH is calibrated against the WHO plasma standard 08/82. Concentrations are in dependent, consult the label on the vial.

PERFORMANCE CHARACTERISTICS

Performance data are given below. Results obtained in individual laboratories may differ.

PRECISION

Reproducibility was determined with different samples (in series and day to day). The following results were obtained:

Sample	Intra-assay		Inter-assay	
	Sample 1	Sample 2	Sample 1	Sample 2
Extinction	58.5	53.4	60.3	54.6
% C1-INH	2.02	2.00	2.00	2.00

COMPARISON OF METHODS OR CORRELATION

Following correlation (%) was obtained in comparing TECHNOCHROM C1-INH with C1-INH (Bio-Chem) $r = 0.9287x - 11.689$ $R^2 = 0.81$

LITERATURE

Please contact Technochrome or your local distributor for literature or technical applications for the test.

Odpowiedź: Zamawiający wymaga zaoferowania w części nr 3 odczynników zgodnie z opisem w Załączniku nr 4.3 do specyfikacji istotnych warunków zamówienia.

DYREKTOR

Dariusz Jorg