AESKULISA Free Protein S

Instruction manual

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1. Intended Use

AESKULISA Free Protein S is a solid phase enzyme immunoassay for the quantitative determination of free Protein S in citrated human plasma. The determination of free Protein S aids in the risk estimation of thrombosis.

2. Clinical Application and Principle of the Assay

Protein S is a vitamin K dependent glycoprotein of 70 kDa that is mainly synthesized by hepatocytes, but also by endothelial cells, Leydig cells in the testis, and megakaryocytes. In human plasma it is present at a concentration of 25 µg/ml and has a half-life of approximately two days. About 40 % of Protein S circulates in a functionally active free form, whereas 60 % is complexed with C4b-binding protein. Protein S plays an essential role in the Protein C anticoagulant system where the free Protein S functions as a cofactor of activated Protein C (aPC). Among the vitamin K dependent proteins Protein S has the highest affinity for negatively charged phospholipids and therefore increases the affinity of activated Protein C to membranes by forming a complex. This is of physiological importance since aPC inactivates preferentially the membrane-bound coagulation factors Va and VIIIa. Protein S deficiency may be inherited or acquired and increases the risk of thrombotic events such as deep vein thrombosis, pulmonary embolism, or thrombophlebitis. The prevalence of Protein S deficiency has been estimated to be up to one case per 300 in the general population. Nearly 50 % of individuals with inherited Protein S deficiency will experience a thrombotic event before the age of 45. Acquired Protein S deficiency occurs more frequently than the inherited form. Amongst others it can be found during oral anticoagulant therapy, oral contraceptive, pregnancy, liver disease, diabetes mellitus, chemotherapy and various inflammatory syndromes. Protein S deficiency is classified in three states. Type I deficiency is a reduction in the level of both Free and Total Protein S. Type II deficiency is characterized by a reduced Protein S activity, with normal antigen level. Type III deficiency corresponds to reduced antigen level and activity of Free Protein S only. To determine the type of defect, the laboratory diagnosis of Protein S may require antigen levels of both Free and Total Protein S and functional determination.

Principle of the test

The AESKULISA Free Protein S is a sandwich ELISA using microplates coated with a capture antibody specific for human free Protein S. 1:51 diluted patient plasma is incubated in the wells allowing free Protein S present in the plasma to bind to the antibody. The unbound fraction is removed by washing. Afterwards anti-human Protein S detection antibody conjugated to horseradish peroxidase (conjugate) is incubated and reacts with the antigen-antibody complex on the microwell surface. Following incubation, unbound conjugate is washed off. Addition of TMB-substrate generates an enzymatic colorimetric (blue) reaction, which is stopped by diluted acid (color changes to yellow). The rate of color formation from the chromogen is measured in optical density units with a spectrophotometer at 450 nm. Using a curve prepared from the Reference Plasma provided wih the kit, the free Protein S antigen relative percent concentration in patient plasma can be determined.

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3. Kit Contents

To be reconstituted:

5x Sample Buffer 1 vial, 20 ml - 5x concentrated (capped white: yellow solution)

Containing: Tris, NaCl, BSA, sodium azide < 0.1% (preservative)

50x Wash Buffer 1 vial, 20 ml - 50x concentrated (capped white: green solution)

Containing: Tris, NaCl, Tween 20, sodium azide < 0.1% (preservative)

Reference Plasma 3 vials, 0.4 ml lyophilized Reference Plasma

Containing: Human plasma

Control "N" 3 vials, 0.2 ml lyophilized Normal Plasma

Containing: Human plasma

Control "D" 3 vials, 0.2 ml lyophilized Deficient Plasma

Containing: Human plasma

Ready to use:

Conjugate 1 vial,15 ml lgG (capped blue: blue solution)

Containing: anti-human Protein S antibody conjugated to horseradish peroxidase

TMB Substrate 1 vial, 15 ml (capped black)

Containing: Stabilized TMB/H2O2

Stop Solution 1 vial, 15 ml (capped white: colorless solution)

Containing: 1M Hydrochloric Acid

Microtiterplate 12x8 well strips with breakaway microwells

Coating see paragraph 1

Material required but not provided:

Microtiter plate reader 450 nm reading filter and optional 620 nm reference filter (600-690 nm). Glass ware(cylinder 100-1000ml), test tubes for dilutions. Vortex mixer, precision pipettes (10, 100, 200, 500, 1000 μ l) or adjustable multipipette (100-1000ml). Microplate washing device (300 μ l repeating or multichannel pipette or automated system), adsorbent paper.

Our tests are designed to be used with purified water according to the definition of the United States Pharmacopeia (USP 26 - NF 21) and the European Pharmacopeia (Eur.Ph. 4th ed.).

4. Storage and Shelf Life

Store all reagents and the microplate at 2-8°C/35-46°F, in their original containers. Once prepared, reconstituted solutions except for the Reference Plasma and the Controls are stable for 1 month at 4°C/39°F, at least. After reconstitution the Reference Plasma and the Controls are stable for 8 hours when stored at 2-8°C/35-46°F. Reagents and the microplate shall be used within the expiry date indicated on each component, only. Avoid intense exposure of TMB solution to light. Store microplates in designated foil, including the desiccant, and seal tightly.

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5. Precautions of Use

5.1 Health hazard data

This product is for **IN VITRO DIAGNOSTIC USE** only. Thus, only staff trained and specially advised in methods of in vitro diagnostics may perform the kit. Although this product is not considered particularly toxic or dangerous in conditions of normal use, refer to the following for maximum safety:

Recommendations and precautions

This kit contains potentially hazardous components. Though kit reagents are not classified being irritant to eyes and skin we recommend to avoid contact with eyes and skin and wear disposable gloves.

WARNING! Buffers contain sodium azide (NaN_3) as a preservative. NaN_3 may be toxic if ingested or adsorbed by skin or eyes. NaN_3 may react with lead and copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up. Please refer to decontamination procedures as outlined by CDC or other local/national guidelines.

Do not smoke, eat or drink when manipulating the kit.

Do not pipette by mouth.

The Reference Plasma and the Controls included in this kit have been tested by approved methods and found negative for HbsAg, Hepatitis C and HIV 1. However, no test can guarantee the absence of viral agents in such material completely. Thus handle Reference Plasma, Controls and patient samples as if capable of transmitting infectious diseases and according to national requirements.

5.2 General directions for use

Do not mix or substitute reagents or microplates from different lot numbers. This may lead to variations in the results

Allow all components to reach room temperature (20-26°C/68-78.8°F) before use, mix well and follow the recommended incubation scheme for an optimum performance of the test.

Incubation: We recommend test performance at 23°C/73.4°F for automated systems.

Never expose components to higher temperature than 37°C/98.6 °F.

Always pipette substrate solution with brand new tips only. Protect this reagent from light. Never pipette conjugate with tips used with other reagents prior.

A definite clinical diagnosis should not be based on the results of the performed test only, but should be made by the physician after all clinical and laboratory findings have been evaluated. The diagnosis is to be verified using different diagnostic methods.

6. Sample Collection, Handling and Storage

Use preferentially plasma samples freshly collected with 3.2% or 3.8% sodium citrate as an anticoagulant. Blood withdrawal must follow national requirements. Do not use icteric, lipemic, hemolysed or bacterially contaminated samples. Blood samples should be collected in clean, dry and empty tubes. After centrifugation, the plasma samples should be used immediately, otherwise stored tightly closed at 2-8°C/35-46°F up to eight hours, or frozen at -20°C/-4°F for longer periods.

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7. Assay Procedure

7.1 Preparations prior to pipetting

Dilute concentrated reagents:

Dilute the concentrated sample buffer 1:5 with distilled water (e.g. 20 ml plus 80 ml).

Dilute the concentrated wash buffer 1:50 with distilled water (e.g. 20 ml plus 980 ml).

Reference Plasma:

Reconstitute Reference Plasma by adding 0.4 ml distilled water and shake gently. Allow the reconstituted plasma to stand for 10 minutes at room temperature before use. The Reference Plasma is stable for 8 hours when stored at 2-8°C/35-46°F.

Controls:

Reconstitute Control N and Control D by adding 0.2 ml distilled water and shake gently. Allow the reconstituted Controls to stand for 10 minutes at room temperature before use.

The Controls are stable for 8 hours when stored at 2-8°C/35-46°F.

Predilution of the Reference Plasma:

Prepare a 1:2 dilution of reconstituted reference plasma in prediluted sample buffer (1x) and mix well, e.g. 100 µl sample buffer + 100 µl plasma.

Preparation of the reference curve:

The dilution set is prepared by using the prediluted Reference Plasma.

Volume Reference Plasma	Volume Sample Buffer	Reference Level
60 µl	1000 μl	150 %
40 μl	1000 μl	100 %
30 μl	1000 µl	75 %
20 μl	1000 μl	50 %
10 μl	1000 μl	25 %
10 µl	2000 μl	12.5 %

Dilution of the Samples and Controls:

Add 20 µl plasma to 1000 µl sample buffer (1x) and mix well.

Washing:

Prepare 20 ml of diluted wash buffer (1x) per 8 wells or 200 ml for 96 wells (e.g. 4 ml concentrate plus 196 ml distilled water).

Automated washing:

Consider excess volumes required for setting up the instrument and dead volume of robot pipette.

Manual washing:

Discard liquid from wells by inverting the plate. Knock the microwell frame with wells downside vigorously on clean adsorbent paper. Pipette 300 µl of diluted wash buffer into each well, wait for 20 seconds. Repeat the whole procedure twice again.

Microplates:

Calculate the number of wells required for the test. Remove unused wells from the frame, replace and store in the provided plastic bag, together with desiccant, seal tightly (2-8°C/35-46°F).

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7.2 Work flow

For pipetting scheme see Annex A, for the test procedure see Annex B We recommend pipetting samples, Controls and working dilutions of the Reference Plasma in duplicate.

- Pipette 100 μl of each patient's diluted plasma into the designated microwells.
- Pipette 100 µl of each working dilution of the Reference Plasma and the diluted Controls into the designated wells.
- Incubate for 30 minutes at 20-26°C/68-78.8°F.
- Wash 3x with 300 μl washing buffer (diluted 1:50).
- Pipette 100 µl conjugate into each well.
- Incubate for 30 minutes at 20-26°C/68-78.8°F.
- Wash 3x with 300 µl washing buffer (diluted 1:50).
- Pipette 100 µl TMB substrate into each well.
- Incubate for 30 minutes at 20-26°C/68-78.8°F, protected from intense light.
- Pipette 100 µl stop solution into each well, using the same order as pipetting the substrate.
- Incubate 5 minutes minimum.
- Agitate plate carefully for 5 sec.
- Read absorbance at 450 nm (optionally 450/620 nm) within 30 minutes.

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8. Quantitative Interpretation

For quantitative interpretation establish the reference curve by plotting the optical density (O.D.) of each dilution of the Reference Plasma (y-axis) against the corresponding value of the Reference Level in % (x-axis). For best results we recommend log/lin coordinates and 4-Parameter Fit. From the O.D. of each sample, read the corresponding patient relative value expressed in %. Multiply the patient relative value obtained from the reference curve by the assigned factor referred in the quality control leaflet to calculate the free Protein S antigen level in % of normal.

Example of a reference curve

We recommend pipetting each dilution of the Reference Plasma in parallel for each run.

Reference Level	OD 450/620 nm	Results (%)	CV % (Variation)
12.5 %	0.433	11.98	4.16
25 %	0.754	23.45	6.20
50 %	1.275	53.63	7.26
75 %	1.581	76.53	2.04
100 %	1.881	99.71	0.29
150 %	2.371	146.52	2.32

Example of calculation

Patient	Replicate (OD)	Mean (OD)	Patient relative value (%)	Factor	Patient free Pro- tein S (%)
P 01	0.933/0.927	0.930	29.5	0.96	28.32
P 02	1.860/1.866	1.863	123.5	0.96	118.56

For lot specific data, see enclosed quality control leaflet. Medical laboratories might perform an in-house Quality Control by using own controls and/or internal pooled plasma, as foreseen by EU regulations.

Do not use this example for interpreting patients results!

Expected values

The values for free Protein S are given in relative percent (%) as compared to pooled normal plasma. The free Protein S concentration in normal human plasma ranges usually between 60 % and 130 %. Samples with values above the range of the reference curve may be assayed again at higher dilutions for accurate results. Each laboratory should establish its own normal range based upon its own techniques, controls, equipment and patient population according to their own established procedures.

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9. Technical Data

Sample material: plasma

Sample volume: 20 µl plasma diluted 1:51 with 1x sample buffer

Total incubation time: 90 minutes at 20-26°C/68-78.8°F

Calibration range: 12.5-150 %

Analytical sensitivity: 1.0 %

Storage: at 2-8°C/35-46°F use original vials, only

Number of determinations: 96 tests

10. Performance Data

10.1 Analytical sensitivity

Testing sample buffer 30 times on AESKULISA Free Protein S gave an analytical sensitivity of 1.0 %.

10.2 Specificity

The microplate is coated with an antibody specific for human free Protein S.

10.3 Linearity

Chosen plasma have been tested with this kit and found to dilute linearly.

		measured	expected	
Sample	Dilution	concentration	concentration	Recovery
No.	Factor	(%)	(%)	(%)
1	1 / 50	97.66	100	97.66
	1 / 100	49.51	50	99.02
	1 / 200	25.66	25	102.64
	1 / 400	13.36	12.5	106.88
2	1 / 50	42.97	40	107.43
	1 / 100	18.78	20	93.90
	1 / 200	9.78	10	97.80
	1 / 400	4.85	5	97.0

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10.4 Precision

To determine the precision of the assay, the variability (intra assay) was assessed by examining its reproducibility on three plasma samples selected to represent a range over the reference curve.

In	Intra-Assay					
Sample	Mean	CV				
No.	(%)	(%)				
1	110	2.3				
2	78	5.6				
3	26	4.2				

10.5 Calibration

This quantitative assay is calibrated against the WHO second international standard for Protein S. The values are given in relative percent (%) as compared to pooled normal plasma.

11. Literature

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ANNEX A: Pipetting scheme

We suggest pipetting working dilutions of the Reference Plasma, controls and samples as follows:

For quantitative interpretation use the working dilutions of the Reference Plasma to establish a standard curve.

	the wo	antitat orking on a to es	dilutions	of the	Refere	ence						
	1	2	3	4	5	6	7	8	9	10	11	12
Α	150	25	P1									
В	150	25	P1									
С	100	12.5	P2									
D	100	12.5	P2									
Е	75	CD	P3									
F	75	CD	P3									
G	50	CN										
Н	50	CN										_

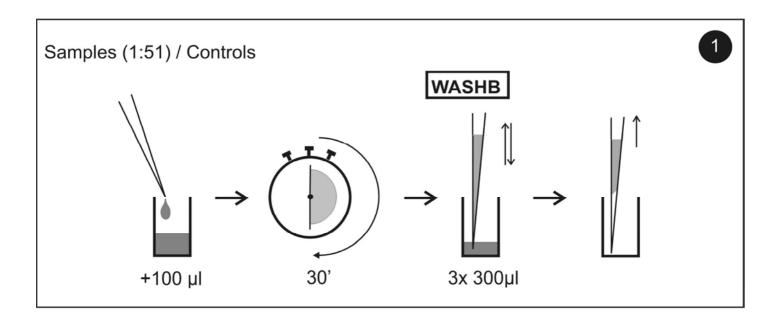
150: Reference Level 150 %, 100: Reference Level 100 %, 75: Reference Level 75 %, 50: Reference Level 50 %, 25: Reference Level 25 %, 12.5: Reference Level 12.5 %

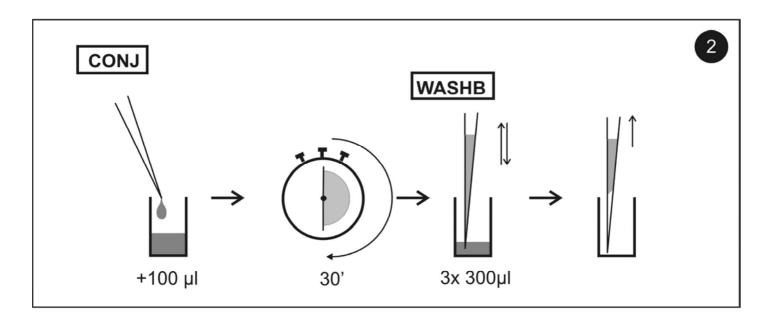
CD: control ,deficient plasma' CN: control ,normal plasma'

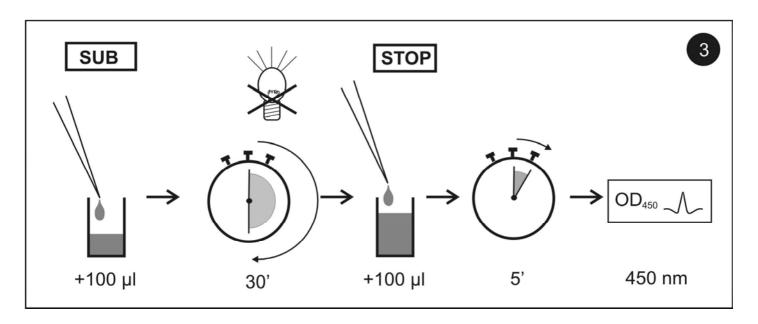
P1: patient 1 P2: patient 2 P3: patient 3

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Annex B: Test Procedure







Temperature/Temperatur:Name:											
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					3.	mim_	Z	Signature/Unterschrift	terschrift:_		1
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IVD	◆ Diagnosi in vitro◆ Pour diagnostic in vitro	 For in vitro diagnostic use
REF	 Pour diagnostic in vitro 	
REF		 Para uso diagnóstico in vitro
REF	♦ In Vitro Diagnostikum	♦ In Vitro Διαγνωστικό μέσο
RFF	◆ Para uso Diagnóstico in vitro	
RFF	◆ Numero d'ordine	 Cataloge number
	 ◆ Référence Catalogue 	 Numéro de catálogo
	◆ Bestellnummer	◆ Αριθμός παραγγελίας
	♦ Número de catálogo	
	◆ Descrizione lotto	♦ Lot
	♦ Lot	♦ Lote
LOT	Chargen Bezeichnung	Χαρακτηρισμός παρτίδας
	◆ Lote	 γαρακτηριόμος παρτίσας
	◆ Conformità europea	◆ EC Declaration of Conformity
(€	 Déclaration CE de Conformité 	 Declaración CE de Conformidad
7.7	 Europäische Konformität 	◆ Ευρωπαϊκή συμφωνία
	◆ Déclaração CE de Conformidade	
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30	◆ 96 Bestimmungen	 96 προσδιορισμοί
	♦ 96 Testes	¥ 00 прооборю дог
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	 Gebrauchsanweisung beachten 	Λάβετε υπόψη τις οδηγίες χρήσης
	♦ Ver as instrucões de uso	
	◆ Da utilizzarsi entro	♦ Use by
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	 Utilizar antes de 	
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+2°C-161		
	◆ Lagerung bei 2-8°C	Φυλάσσεται στους 2-8°C
	♦ Conservar entre 2-8°C	
_	♦ Prodotto da	 Manufactured by
	◆ Fabriqué par	◆ Fabricado por
	♦ Hergestellt von	 Κατασκευάζεται από
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	◆ Controllo positivo	◆ Positive Control
CON +	◆ Contrôle Positif	◆ Control Positivo
CON	◆ Positiv Kontrolle	 Θετικός ορός ελέγχου
	◆ Controlo positivo	
	♦ Controllo negativo	♦ Negative Control
CON	◆ Contrôle Négatif	◆ Control Negativo
CON -	◆ Negativ Kontrolle	 Αρνητικός ορός ελέγχου
	Controlo negativo	* Aballimo? obo? encilvo
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I CAL I	♦ Etalon	◆ Calibrador
OAL	◆ Kalibrator	Αντιδραστήριο βαθμονόμησης
	◆ Calibrador	
	◆ Controllo con plasma normale	◆ Control Normal Plasma
	 Contrôle de plasma normal 	♦ Control Plasma normal
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CON N	♦ Kontrolle Normalplasma♦ Controlo Plasma normal	♦ Μάρτυρας Φυσιολογικού πλάσματος
CONN	♦ Controlo Plasma normal	
CONIN	◆ Controlo Plasma normal ◆ Controllo con plasma carente	◆ Control Deficient Plasma
CONID	◆ Controlo Plasma normal ◆ Controllo con plasma carente ◆ Contrôle de plasma déficient	◆ Control Deficient Plasma ◆ Control Plasma deficiente
COND	◆ Controlo Plasma normal ◆ Controllo con plasma carente ◆ Contrôle de plasma déficient ◆ Kontrolle Mangelplasma	◆ Control Deficient Plasma
CON D	◆ Controlo Plasma normal ◆ Controllo con plasma carente ◆ Contrôle de plasma déficient ◆ Kontrolle Mangelplasma ◆ Controlo Plasma deficiente	 Control Deficient Plasma Control Plasma deficiente Μάρτυρας Παθολογικού πλάσματος
CONID	◆ Controlo Plasma normal ◆ Controllo con plasma carente ◆ Contrôle de plasma déficient ◆ Kontrolle Mangelplasma ◆ Controlo Plasma deficiente ◆ Coniugato	 Control Deficient Plasma Control Plasma deficiente Μάρτυρας Παθολογικού πλάσματος Conjugate
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PEG WASHB 50x SUB STOP	Controlo Plasma normal Controllo con plasma carente Contrôle de plasma déficient Kontrolle Mangelplasma Controlo Plasma deficiente Coniugato Conjugé Konjugat Conjugado Microplastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaque sensibilisée Polietilenglicole Polyethylenglycol Polyethylenglycol Polyethylenglykol Polietilenglicol Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Substrato Reagente bloccante Solution d'Arrêt Stopreagenz Solucão de paragem Tampone campione Tampone campione Tampone campione Tampone campione Tampon Echantillons Probenpuffer Diluente de amostra	 Control Deficient Plasma Control Plasma deficiente Μάρτυρας Παθολογικού πλάσματος Conjugate Conjugado Σύζευγμα Coated microtiter plate Microplaca sensibilizada Επικαλυμμένη μικροπλάκα Polyethylenglycol Polietilenglicol Πολυεθυλενγλικόλη Wash buffer Solución de lavado Ρυθμιστικό διάλυμα πλύσης Substrate buffer Ταπρόn sustrato Ρυθμιστικό διάλυμα υποστρώματος Stop solution Solución de parada Αντιδραστήριο διακοπής αντίδρασης Sample buffer Ταπρόn Muestras Ρυθμιστικό διάλυμα δειγμάτων Reference Plasma