



INSTRUCTION MANUAL

AESKULISA U1-70

Ref 3104













Product Ref.	3104
Product Desc.	U1-70
Manual Rev. No.	004 : 2017-08-11

Instruction Manual

Table of Contents

1	Intended Use	1
2	Clinical Application and Principle of the Assay	1
3	Kit Contents	2
4	Storage and Shelf Life	2
5	Precautions of Use	3
6	Sample Collection, Handling and Storage	4
7	Assay Procedure	4
8	Quantitative and Qualitative Interpretation	7
9	Technical Data	8
10	Performance Data	8
11	Disposal	9
12	Literature	9



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1 Intended Use

AESKULISA U1-70 is a solid phase enzyme immunoassay employing recombinant human 70 kDa protein of the U1-snRNP complex for the quantitative and qualitative detection of antibodies against the 70 kDa U1-RNP in human serum. The assay is a tool in the diagnosis of mixed connective tissue diseases (MCTD) and systemic lupus erythematosus (SLE).

2 Clinical Application and Principle of the Assay

The U1-snRNP complex is a small nuclear ribonucleoprotein particle composed of uridine rich (thus U) small nuclear RNA and a set of proteins: the 70 kDa U1-specific ribonucleoprotein plus proteins A and C (all formerly summarized as RNPs) and the Sm (Smith) antigen which comprises eight proteins: B,/B`, D1, D2, D3, E, F,and G. Because of its protein components, the Sm and RNPs, the complex is often named RNP/Sm complex. The U1-snRNP complex is a part of the splicosomal complex, that facilitates the processing of pre-mRNA to mature mRNA in the nucleus.

Antibodies against the 70 kDa protein of the U1-snRNP complex belong to the heterogenous group of anti-nuclear antibodies (ANA), which are associated with various autoimmune diseases. They are directed against various proteins of the nucleus. Indirect immunofluorescence test (IFT) on eucaryotic cells like HeLa has been the established method for the detection of ANAs. Single antibody specificities are distinguished by fluorescence patterns but more specific testing by ELISAs employing the target antigens are available too for a simple and reliable differentiation of ANAs.

Antibodies against the 70 kDa U1-specific protein are found in 95% of mixed connective tissue diseases (MCTD) but do also occur in systemic lupus erythematosus (SLE) with a prevalence of 40%. Isolated occurrence of anti-70 kDa antibodies is typical for the Sharp syndrome. Whilst antibodies against Sm are highly specific for systemic lupus erythematosus (SLE) and thus are included in diagnostic and classification criteria for SLE. Anti-Sm antibodies are found in 20-30% of patients with SLE.

Principle of the test

Serum samples diluted 1:101 are incubated in the microplates coated with the specific antigen. Patient's antibodies, if present in the specimen, bind to the antigen. The unbound fraction is washed off in the following step. Afterwards anti-human immunoglobulins conjugated to horseradish peroxidase (conjugate) are incubated and react with the antigen-antibody complex of the samples in the microplates. Unbound conjugate is washed off in the following step. Addition of TMB-substrate generates an enzymatic colorimetric (blue) reaction, which is stopped by diluted acid (color changes to yellow). The intensity of color formation from the chromogen is a function of the amount of conjugate bound to the antigen-antibody complex and this is proportional to the initial concentration of the respective antibodies in the patient sample.

Page 1 of 9



Product Ref.	3104
Product Desc.	U1-70
Manual Rev. No.	004: 2017-08-11

3 Kit Contents

TO BE RECONSTITUTED			JTED	
Item	Quantity	Cap color	Solution color	Description / Contents
Sample Buffer (5x)	1 x 20ml	White	Yellow	5 x concentrated Tris, sodium chloride (NaCl), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Wash Buffer (50x)	1 X 20ml	White	Green	50 x concentrated Tris, NaCl, Tween 20, sodium azide < 0.1% (preservative)
		RE	ADY TO USE	
Item	Quantity	Cap color	Solution color	Description / Contents
Negative Control	1 x 1.5ml	Green	Colorless	Control material (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Positive Control	1 x 1.5ml	Red	Yellow	Control material (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Cut-off Calibrator	1 x 1.5ml	Blue	Yellow	Calibrator material (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Calibrators	6 x 1.5ml	White	Yellow *	Concentration of each calibrator: 0, 3, 10, 30, 100, 300 U/ml. calibrator material (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Conjugate, IgG	1 x 15ml	Blue	Blue	Containing: Immunoglobulins conjugated to horseradish peroxidase, bovine serum albumin (BSA),
TMB Substrate	1 x 15ml	Black	Colorless	Stabilized tetramethylbenzidine and hydrogen peroxide (TMB/H ₂ O ₂)
Stop Solution	1 x 15ml	White	Colorless	1M Hydrochloric Acid
Microtiter plate * Color increasing with concentration	12 x 8 well strips	N/A	N/A	With breakaway microwells. Refer to paragraph 1 for coating.

^{*} Color increasing with concentration

MATERIALS REQUIRED, BUT NOT PROVIDED

Microtiter plate reader 450 nm reading filter and recommended 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 µl) or adjustable multipipette (100-1000µl). Microplate washing device (300 µl 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 are stable at 2-8°C/35-46°F for 1 month. 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.



Product Ref.	3104
Product Desc.	U1-70
Manual Rev. No.	004: 2017-08-11

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 the intended 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! Calibrators, Controls and Buffers contain sodium azide (NaN₃) as a preservative. NaN₃ may be toxic if ingested or adsorbed by skin or eyes. NaN₃ 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.

All biological source material used for some reagents of this kit has 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 these as if capable of transmitting infectious diseases and according to national requirements.

The kit contains material of animal origin as stated in the table of contents, handle according to national requirements.

5.2 General directions for use

In case that the product information, including the labeling, is defective or incorrect please contact the manufacturer or the supplier of the test kit.

Do not mix or substitute Controls, Calibrators, Conjugates or microplates from different lot numbers. This may lead to variations in the results.

Allow all components to reach room temperature (20-32°C/68-89.6°F) before use, mix well and follow the recommended incubation scheme for an optimum performance of the test.

Incubation: We recommend test performance at 30°C/86°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.



Product Ref.	3104
Product Desc.	U1-70
Manual Rev. No.	004: 2017-08-11

6 Sample Collection, Handling and Storage

Use preferentially freshly collected serum samples. Blood withdrawal must follow national requirements. Do not use icteric, lipemic, hemolysed or bacterially contaminated samples. Sera with particles should be cleared by low speed centrifugation (<1000 x g). Blood samples should be collected in clean, dry and empty tubes.

After separation, the serum samples should be used during the first 8h, respectively stored tightly closed at 2-8°C/35-46°F up to 48h, or frozen at -20°C/-4°F for longer periods. (Thomas: Labor und Diagnose; CLSI Guideline GP44-A4)

7 Assay Procedure

7.1 Preparations prior to starting

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).

To avoid mistakes we suggest to mark the cap of the different calibrators.

Samples:

Dilute serum samples 1:101 with sample buffer (1x)

e.g. 1000 µl sample buffer (1x) + 10 µl serum. 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).



Product Ref.		3104
	Product Desc.	U1-70
	Manual Rev. No.	004: 2017-08-11

7.2 Pipetting Scheme

We suggest pipetting calibrators, controls and samples as follows:

For *QUANTITATIVE* interpretation

	1	2	3	4
Α	Cal A	Cal E	P1	
В	Cal A	Cal E	P1	
С	Cal B	Cal F	P2	
D	Cal B	Cal F	P2	
E	Cal C	PC	P3	
F	Cal C	PC	P3	
G	Cal D	NC		
Н	Cal D	NC		

For QUALITATIVE interpretation

				p
	1	2	3	4
Α	NC	P2		
В	NC	P2		
С	CC	P3		
D	CC	P3		
Е	PC			
F	PC			
G	P1			
Н	P1			

CalA: calibrator A CalD: calibrator D

CalB: calibrator B CalE: calibrator E

CalC: calibrator C CalF: calibrator F

PC: positive control P1: patient 1

NC: negative control P2: patient 2

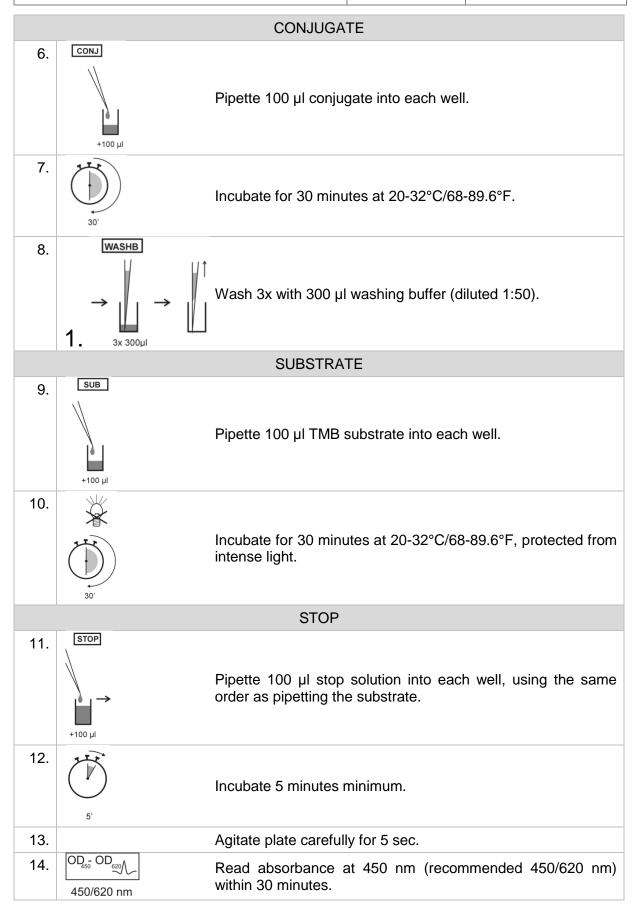
CC: cut-off calibrator P3: patient 3

7.3 Test Steps

Step	Description	
1.	Ensure preparations f	rom step 7.1 above have been carried out prior to pipetting.
2.	Use the following step results desired:	es in accordance with quantitative/ qualitative interpretation
		CONTROLS & SAMPLES
3.		Pipette into the designated wells as described in chapter 7.2 above, 100 µl of either: a. Calibrators (CAL.A to CAL.F) for QUANTITATIVE or
		b. Cut-off Calibrator (CC) for QUALITATIVE interp.
		and 100 µl of each of the following:
	+100 μΙ	 Negative control (NC) and Positive control (PC), and Patients diluted serum (P1, P2)
4.	30'	Incubate for 30 minutes at 20-32°C/68-89.6°F.
5.	WASHB →	Wash 3x with 300 μl washing buffer (diluted 1:50).



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Manual Rev. No.	004: 2017-08-11

8 Quantitative and Qualitative Interpretation

For **quantitative interpretation** establish the standard curve by plotting the **optical density** (OD) of each calibrator (y-axis) with respect to the corresponding concentration values in U/ml (x-axis). For best results we recommend log/lin coordinates and 4-Parameter Fit. From the OD of each sample, read the corresponding antibody concentrations expressed in U/ml.

Normal Range	Equivocal Range	Positive Results
< 12 U/ml	12 - 18 U/ml	>18 U/ml

Example of a standard curve

Do NOT use this example for interpreting patient's result

Calibrators IgG	OD 450/620 nm	CV % (Variation)
0 U/ml	0.044	3.2
3 U/ml	0.132	0.6
10 U/ml	0.300	2.1
30 U/ml	0.557	2.8
100 U/ml	1.224	1.9
300 U/ml	2.130	0.3

Example of calculation

	Patient	Replicate (OD)	Mean (OD)	Result (U/ml)
ľ	P 01	1.156/1.108	1.132	86.9
ľ	P 02	0.543/0.564	0.554	29.9

Samples above the highest calibrator range should be reported as >Max. They should be diluted as appropriate and re-assayed. Samples below calibrator range should be reported as < Min.

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 sera, as foreseen by national regulations.

Each laboratory should establish its own normal range based upon its own techniques, controls, equipment and patient population according to their own established procedures.

In case that the values of the controls do not meet the criteria the test is invalid and has to be repeated.

The following technical issues should be verified: Expiration dates of (prepared) reagents, storage conditions, pipettes, devices, photometer, incubation conditions and washing methods.

If the items tested show aberrant values or any kind of deviation or that the validation criteria are not met without explicable cause please contact the manufacturer or the supplier of the test kit.

For **qualitative interpretation** read the optical density of the cut-off calibrator and the patient samples. Compare patient's OD with the OD of the cut-off calibrator. For qualitative interpretation we recommend to consider sera within a range of 20% around the cut-off value as equivocal. All samples with higher ODs are considered positive, samples with lower ODs are considered negative.

Negative: OD patient < 0.8 x OD cut-off

Equivocal: $0.8 \times OD \text{ cut-off} \leq OD \text{ patient } \leq 1.2 \times OD \text{ cut-off}$

Positive: OD patient > 1.2 x OD cut-off



Product Ref.	3104
Product Desc.	U1-70
Manual Rev. No.	004: 2017-08-11

9 Technical Data

Sample material: serum

Sample volume: 10 µl of sample diluted 1:101 with 1x sample buffer

Total incubation time: 90 minutes at 20-32°C/68-89.6°F

Calibration range: 0-300 U/ml Analytical sensitivity: 0.83 U/ml

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

Number of determinations: 96 tests

10 Performance Data

10.1 Normal Range

Sera of healthy donors have been investigated on AESKULISA U1-70 and resulted in the following distribution:

Number of Samples	negative	borderline	positive
80	80 (100 %)	0 (0 %)	0 (0%)

We also recommend that each laboratory should establish its own normal range.

10.2 Precision

Precision of test results obtained with AESKULISA U1-70, REF 3104 were assessed by the determination of the intra- and inter assay precision as well as the lot-to-lot variance by the analysis of multiple samples of different antibody activities.

Sample ID	Intra Assay	/ Precision	Inter Assay	Precision	LOT to LOT	Precision
Sample ID	Mean (U/ml)	CV	Mean (U/ml)	CV	Mean (U/ml)	CV
Sample 1	8.38	8.4%	8.38	11.0%	8.65	8.5%
Sample 2	18.58	5.7%	18.58	7.3%	19.13	7.0%
Sample 3	31.82	5.7%	31.82	9.7%	33.78	4.1%
Sample 4	65.94	6.3%	65.94	12.9%	71.84	5.9%
Sample 5	205.91	5.4%	205.91	7.6%	214.21	4.4%

10.3 Sensitivity and Specificity Analytical sensitivity

The analytical sensitivity has been assessed by multiple analysis of sample buffer and low positive samples and calculating the limit of detection.

For AESKULISA U1-70, REF 3104 a LoD of 0.83 U/ml has been determined.



Product Ref.	3104
Product Desc.	U1-70
Manual Rev. No.	004: 2017-08-11

10.4 Linearity

Three sera covering the whole test range were diluted serially with a negative serum sample. Measured and expected values of the distinct dilutions were used to calculate a linear regression. According to results of linearity testing a measurable range of 3 - 300 U/ml was determined for AESKULISA U1-70.

10.5 Calibration

The AESKULISA U1-70 is calibrated against reference sera from the CDC (Centers for Disease Control and Prevention) Atlanta. The results are expressed in U/ml.

11 Disposal

Please observe the relevant statutory requirements!

12 Literature

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CLSI Guideline GP44-A4: Procedures for the Handling and Processing of Blood Specimens for Common Laboratory Tests

	Diagnosi in vitus	Far in vitra diagnasti - · · -
	- Diagnosi in vitro	- For in vitro diagnostic use
IVD	- Pour diagnostic in vitro	- Para uso diagnóstico in vitro
	- In Vitro Diagnostikum	- In Vitro Διαγνωστικό μέσο
<u> </u>	- Para uso Diagnóstico in vitro	·
	"Numero d'ordine	"Catalana numbar
		" Cataloge number
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REF	" Bestellnummer	" Αριθμός παραγγελίας
	" Número de catálogo	
	<u> </u>	"Lot
- -	" Descrizione lotto	
LOT	" Lot	"Lote
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	" Déclaração CE de Conformidade	
	" 96 determinazioni	" 96 tests
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	" Ver as instrucões de uso	
	" Da utilizzarsi entro	"Use by
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	" Verwendbar bis	¨ Χρήση μέχρι
	" Utilizar antes de	
1,∕-+8°C	"Conservare a 2-8°C	" Store at 2-8°C (35-46°F)
	"Conserver à 2-8°C	"Conservar a 2-8°C
	" Lagerung bei 2-8°C	¨ Φυλάσσεται στους 2-8°C
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2 0	" Prodotto da	" Manufactured by
_		•
AAA	" Fabriqué par	"Fabricado por
	" Hergestellt von	¨ Κατασκευάζεται από
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	" Calibratore cut-off	" Cut off Calibrator
	" Etalon Seuil	" Calibrador de cut-off
CO-CAL	" Grenzwert Kalibrator	¨ Οριακός ορός Αντιδραστήριο βαθμονόμησης
0 0 7 12	" Calibrador de cut-off	
		" Desiring Countries
	"Controllo positivo	" Positive Control
	" Contrôle Positif	"Control Positivo
	" Positiv Kontrolle	" Θετικός ορός ελέγχου
	"Controlo positivo	
		"Negative Control
CON	" Controlo positivo	
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