



ASCA IGA ELISA

Order Code: AD ASCAA96

1. INTENDED USE

The ASCA IgA ELISA kit allows the semi-quantitative detection of IgA antibodies to S.cerevisiae in human serum.

This kit is intended to confirm medical observations obtained by intestinal endoscopy and/or results obtained by Indirect Immunofluorescence with smears of baker's yeast, as an aid in the diagnosis of Crohn's disease (for more details, see 11.5 Auto-antibody diagnostic value)..

The test is intended for a large, routine population. This kit is strictly reserved for professional use into clinical analysis laboratories. It can only be used manually or in an open automated ELISA processing system, programmed according to the pipetting scheme described in point 9.2.

2. PRINCIPLE OF THE TEST

This kit and all its components are intended to be performed manually or in an open instrument specifically intended for ELISA plate processing.

This kit is a solid phase enzyme immunoassay using 96 coated breakaway microwells and a peroxidase-TMB detection system. The microwells are coated with highly specific antigen.

In the test procedure, serum samples are diluted 1/51 and incubated in the microwells. Human antibodies, if present, bind to the specific antigen. Unbound or excess antibodies are removed by washing and HRP-conjugated rabbit antibodies against human IgA are added to the microwells. The enzyme conjugate binds to the antigen-antibody complexes. After a second washing step to remove excess conjugate, the TMB/substrate solution is added. The enzyme activity, if present, generates a colorimetric (blue) reaction. Diluted acid is added to stop the reaction. Consequently, the colour turns from blue to yellow and may be measured at 450 nm/620 nm using a conventional microplate reader. The absorbance (Optical Density) is directly proportional to the concentration of IgA antibodies bound to the antigen on the microwells surface. The kit is composed of 96 single-use test wells.

3. KIT CONTENTS

Prior to any use of the kit, please check that all the items listed are present or if characteristics of the product are not corresponding to those described hereafter.

If one of the items is missing or damaged or not conforming, please do not use the kit and contact your distributor.

3.1 Components

Components		
To be reconstituted: 20x Wash Buffer	1 vial, 50 ml - 20 x concentrated (blue) Containing: H₂O, TBS, NaCl, Tween, preservatives, dye	
Ready to use: Sample Diluent	1 vial, 50 ml (yellow) Containing: H ₂ O, NaCl, TBS, Tween, BSA, dye, preservatives	
Substrate	1 vial, 20 ml (colourless) Containing: H ₂ O, TBS, Sodium Acetate, Sodium perborate, stabilizer, EDTA, preservatives	
Negative control	1 vial, 1 ml (green) Containing: human serum (diluted), dye, preservatives	
Calibrators	6 vials, 1 ml each 0, 25, 50, 100, 200, 400 U/ml. (colour increasing with concentration) Containing: human serum (diluted), dye, preservatives	
Positive control	1 vial, 1 ml (blue) Containing: human serum (diluted), dye, preservatives	
Conjugate	1 vial, 20 ml (green) Containing: H2O, NaCl, TBS, KCl, HRP conjugate Rabbit anti-human IgA, dye, preservatives	
Stop solution	1 vial, 20 ml (colourless) Containing: sulfuric acid 2.5 %	
Microwell Plate strips	12 x 8 well strips on a plastic frame with breakaway microwells Coated with purified mannan (from S.cerevisiae)	

Abbreviations in alphabetic order:

BSA = Bovine Serum Albumin; EDTA = Ethylenediaminetetraacetic acid; HRP = Horse Radish Peroxidase, KCl = Potassium Chlorure; NaCl = Sodium Chloride; TBS = Tris Buffer Saline; TMB =Tetramethylbenzidine.

For more information on the composition and concentration of the active ingredients used, please refer to the MSDS available on request or on www.alphadia.be.





Symbols used on kit labels

Attenzione: consult instructions for use Activary Gebrauchsammendung beachten Actenzione: consult la fistrucciones Actenzione: consultar las instrucciones Actenziones Actenzi	•			
Attenzione : consulti le istruzioni per uso Achtung Gebrushamswednug beachten Attenzion : consulter in mode d'emploi attenzione : consulter in mode d'emploi se de la consultario in consulter in mode d'emploi se de la consultario in consultario in mode d'emploi se de la consultario in consultario in mode d'emploi se de la consultario in consultario in mode d'emploi se de la consultario in mode de mandia in structo de la consultario in mode de mandia in structo de la consultario de la consultario in vitro Dispositivo médico para uso dispositico in vitro Dispositivo médico para uso dispositico in vitro Dispositivo médico para uso dispositico in vitro Dispositivo médico para uso dispositivo di vitro dispositivo di para di para dispositivo di para d		Attention : consult instructions for use		For uses
Achtung: Gebrauchsanwendung beachten Attention: consultar la sinstrucciones Attention: consultar la sinstrucciones Dispositivo medico dispositivo in vitro Dispositivo medico dispositivo in vitro Dispositivo medico para uso diagnostico in vitro Dispositivo medico para uso diagnostic				
Attention : consultar le mode d'emploi			727	
Atentión : consultar instrucciones Alenção : consultar instrucciones Alenção : consultar instrucções para uso Roccoyn : Zsujeoukurrare no cônixes, cynónno; II vibro disposition medica de vivo Zur medizinischen disposition have described in vitro Disposition médica para uso diagnostico in vitro Disposition de del conservation de la certa del para uso dispositio del para uso dispositio del para del para uso dispositio del para del par	r		\Σ/	
Altenção : consultar instruções para uso Para utilização P			V	
Inpocogn Zugleouksprare in confines pupping In vitro diagnostic medical desire in the processor of the				
In vitro diagnostic medical device Dispositive medical diagnostic in vitro Dispositive medical ded diagnostic in vitro Dispositive medical para uso diagnostic in vitro To be stored from 2°C to 8°C bel 2°C to 8°C lager Del 2°C bis 8°C lager D				Para utilização
In vitro diagnostic medical device Dispositive medical diagnostic in vitro Dispositir medical dei diagnostic in vitro Dispositir medical dei diagnostic in vitro Dispositive medico para uso diagnostico in vitro Dispositive del Conservacione da 2 - 8°C para		Προςοχή : Συμβουλευτειτε τις οδηλιες χρήσης		νια χρήσεις
Dispositive medice diagnostic in vitro Dispositir medica de diagnostic in vitro Dispositir medica para uso diagnostic con vitro Dispositir medica para uso diagnostic con vitro Dispositir medica para uso diagnostic con vitro Dispositire del monitorie con conservati del monitorie con para diagnostic con vitro Dispositire del monitorie con conservati del monitorie con diagnostico del mese) Utilizar prima del (ultimo giorno del mese) Victilis en vant (dernier jour du monis indique) Utilizar prima del (ultimo giorno del mese) Victilis en vant (dernier jour du monis indique) Utilizar prima del (ultimo giorno del mese) Victilis en vant (dernier jour du monis indique) Utilizar prima del (ultimo giorno del mese) Victilis en vant (dernier jour du monis indique) Utilizar vant (dernier jour d		In vitro diagnostic medical device		
IVD Dispositive médico para uso diagnostico in vitro Dispositivo medico del mese processo del processo di para di para uso di para uso di para di para uso di para di para uso di para uso di para di para di para para uso di para di para di para di para di para para us				
Dispositiv médica para uso diagnostic in vitro Dispositivo médico para uso diagnostico in vitro Dispositivo medico para uso diagnostico in vitro de reducio opinico controlo de corte Diluente campione Diluente campione Diluente campio				
Dispositive médice para use diagnostice in vitro lispositive medice para use diagnostice in vitro lispositive medice para use provided de l'accidente de l'	LIV/D		DEE	
Dispositivo médico para uso diagnostico in vitro Iarnpio úbado y no divivano de la Conservacione da 2 − 8°C Conservacione de 2 − 8°C Conservacio			KEF	
To pe store of from 2°C to 8°C		Dispositivo médico para uso diagnostico in vitro		Código
To be stored from 2°C to 8°C Conservazione da 2 - 8°C bel 2°C bis 8°C lagern A conservazione da 2 - 8°C Armazenar a 2 - 8°C Ar		Dispositivo médico para uso diagnostico in vitro		Código
To be stored from 2°C to 8°C Conservazione da 2 - 8°C bel 2°C bis 8°C lagern A conservazione da 2 - 8°C Armazenar a 2 - 8°C Ar		Ιατρικό υλικό για διάννωση In Vitro		Κωδικός
Conservazione da 2 - 8°C bel 2°C bis 8°C lagerm A conserver de 2°C à 8°C Almacenar a 2 - 8°C Armazenar a 2 - 8°C Armogracior croucç 2 duc 8°C LET LET LET LET LET LET LET LE		To be stored from 2°C to 8°C		
A conserver de 2ºC à 8ºC Almacenar a 2 - 8ºC Armacenar a 2 - 8°C Armacenar a 2				
A conserver de 2°C à 8°C Almacenar a 2 - 8°C Armazenar a 2 - 8°C A	08°C		_	
Almacenar a 2 - 8°C Armacenar a 2 - 8°C Batch Number Lotto numero Chargennumer Designation du lot to Denominacion de lote Numero do lote Numero de la lumero protegre de al luz Protegre de la luz Protegre de l	V-		444	
Amagenera a 2 - 8°C Anoflexodor group 2 δως 8°C Batch Number Lotto numero Chargennummer Designation du lot Denominacion de lote Numéro do lote Koδixóc, CE Mark Marcatura C CE-Kenzeichnung Marquage CE Marcação	2°C/			
Anoflineciores crouc 2 étoc 8°C Batch Number Lotto numero Chargennummer Désignation du lot Denominacion de lote Numéro do lote Numéro do lote Numéro do lote Numéro do lote Marcarda CE Ma	- 91	Almacenar a 2 - 8°C		Fabricado por
Lot numer		Armazenar a 2 – 8°C		Fabricado por
Lot numer		Αποθηκεύστε στους 2 έως 8°C		Κατασκευάζεται από την
Lotto numero Chargennummer Designation du lot Denominacion de lote Numéro do lote Numéro do lote Koßikóc Koßikóc CE Mark Marcatura CE CE-Kennzeichnung Marquage CE Marcação CE Marcação CE Marcação CE Mercação CE Morcação CE Morcaval Controlo Tira com microcavidades Micpowokom/Tira v Positive control Controlo positivo				
Control Con				
LOT Désignation du lot Denominacion de lote Numéro do lote Numéro do lote Numéro do lote No. Ko. Ko. Ko. Ko. Ko. Ko. Ko. Ko. Ko. K				
Denominacion de lote Numéro do lote Koδικός CE Mark Marcatura CE CE-Kenzeichnung Marquage CE Marca Ce	LOT			
Numéro do lote Kobikóc Spónm soc (researcia (ultimo dia do més) Kobikóc Spónm soc (researcia (ultimo dia do més) Numéro do lote Nacional (ultimo dia do més) Nacional (ul	LOI		25	
			_	
CE Mark Marcatura CE CE-Kennzeichnung Marquage CE Marca GE Marca				Data limite para utilização (ultimo dia do mês)
CE Mark Marcatura CE CE-Kennzeichnung Marquage CE Marca GE Marca		Κωδικός		Χρήση έως (τελευταια ημέρα του μήνα)
Marcatura CE CE-Kennzeichnung Marquage CE Marca CE Marca CE Marca CE Marca CE Marca CE Marcação CE Marcação CE Marcação CE Mozetti Kavitat Barrette Tira para micropocillo Tira com microcavidades Microwolnopsitivo Controllo positivo Controllo positivo Control positivo Control positivo Control positivo Control positivo Negativontrolle Control Controllo negativo Negativontrolle Control Control negativo Aργητικός μάρτυρος Control negativo Aργητικός μάρτυρος (x concentrated) tampão de lavage (x concentrado) tampão de lavage Substrate Substrat		CE Mark		
CE-Kennzeichnung Marquage CE Marca Ce Malbrater (valor) Malbrater (valor) Malbrater (valor) Malbrater (valor) Malbrater (valor) Calibrator (valor) Calibrator (valor				
Marquage CE Marca Ca Marca Ce Malca C.				
Marca CE Marcação CE Marcação CE Protegra de la luz Protegra de la luz Protegra de axposição à luz Inportration Información			<u> ></u> • <	
Marca CE Marcação CE Marcação CE Protegra de la luz Protegra de la luz Protegra de axposição à luz Inportration Información	_ (
Microwell Pozzetti Kavitat Barrette Tira para micropocillo Tira com microcavidades Micpocontoritrow Microwell Pozzetti Kavitati Barrette Tira para micropocillo Tira com microcavidades Micpocontoritrow Positive control Controllo positivo Controllo positivo Controllo positivo Controllo positivo Controllo positivo Controllo positivo Controlo Controlo positivo Controlo positivo Controlo Control	•			
Microwell Pozzetti Kavitat Barrette Tra para micropocillo Tira com microcavidades Microwell Positive control Calibrator (valor) Kalibrator (valor) Kalibrator (valor) Kalibrator (valor) Kalibrator (valor) Calibrador (valor) Calibrador (valor) Roθμονομητής (τρι/η) Positive control Controllo positivo Positive control Controllo positivo Positive control Controllo positivo		Marcação CE		Proteger da exposição à luz
Microwell Pozzetti Kavitat Barrette Tra para micropocillo Tira com microcavidades Microwell Positive control Calibrator (valor) Kalibrator (valor) Kalibrator (valor) Kalibrator (valor) Kalibrator (valor) Calibrador (valor) Calibrador (valor) Roθμονομητής (τρι/η) Positive control Controllo positivo Positive control Controllo positivo Positive control Controllo positivo		μονογράφηση CE		Προστατεύετε τον αντιδραστήριο
Pozzetti Kavitat Barrette B		Microwell		Calibrator value)
CONTROL CON		Pozzetti		
Barrette Tira para micropocillo Tira com microcavidades Mikpokolλorήτων Positive control Controllo positivo Controllo po				
Tira para micropocillo Tira com microcavidades Μίκροκοιλοτήτων Positive control Controllo positivo Positive control Contrôle positif Controlo positivo Ocntrolo ecativo Negative control Controlo negativo Negative control Controlo negativo Controlo negativo Apνητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x concentrated) wash buffer Tampone de lavage (x concentré) (x concentrado) tampones de lavado (x concentrado) tampone de lavade (x concentrado) tampone de lavade Substrate Substrate Substrat Substrat Substrat Substrato Solução de paragem	WELL		CAL	
Tira com microcavidades Mikpokolori/τον Positive control Controllo positivo Positive control Controllo positivo Positive controlle Controllo positivo Oerikoće págitio Controllo negativo Negative control Controllo negativo Negative control Controllo negativo Negative control Controllo negativo Controllo negativo Apymikoće púprupoc (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentrád) tampone de lavage (x concentrád) tampone de lavage (x concentrado) tampose de lavado (x co	VVEL L		CAL	
Miκροκοίλοτήτων Positive control Controllo positivo Positivkontrolle Controllo positivo Controllo egativo Controllo negativo Negative control Controllo negativo Controllo negati				
Positive control Control positivo Controlo positivo Controlo positivo Octrolo Positivo				
Controllo positivo Positivkontrolle Controlo positivo Controlo Regativo Controlo Regativo Negativo Regativo Controlo negativo Negative Ne		Μικροκοιλοτήτων		βαθμονομητής (τιμή)
Controllo positivo Positivkontrolle Controlo positivo Controlo Regativo Controlo Regativo Negativo Regativo Controlo negativo Negative Ne		Positive control		Cut off value
Positivkontrolle Contrôle positif Controlo positivo Controlo de corte controlo de corte controlo de redução opiacký, τιμής Diluent Controlo negativo Negativkontrolle Controlo negativo Controlo negativo Controlo negativo Apyntricóς μάρτυρας (x concentrated) wash buffer Tampón diluyente Tampón diluyente Tampón diluyente Tampón diluyente Tampone di lavaggio (concentrato x) (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x concentrado) tampone se lavado (x concentrado) tampón de lavagem (Controllo positivo		Controllo senarazione
Contrôle positif Controlo positivo Controlo positivo Ostrikôς μάρτυρας Negative control Control negativo Negativkontrolle Controlo negativo Negativkontrolle Controlo negativo Negativkontrolle Controlo negativo Negativkontrolle Controlo negativo Apvητικός μάρτυρας (× concentrated) wash buffer Tampone di lavaggio (concentrato ×) (× konzentrierte) Spülpufferlösung tampon de lavage (× concentrado) tampones de lavage (× concentrado) tampones de lavagem (× concentrado) tampõnes de lavagem Substrate Substrate Substrate Substrato Substrato Substrato Substrato Substrato Solución de paragem Controlo de redução oριακής τιμής Diluente Diluente Diluente Diluente Tampone di diluyente Tampõn de diluição Pυθμιστικό διάλυμα αραίωσης Conjugate Conjugate Conjugate Conjugate Conjugado Conjugado Conjugado Substrate Solucion di stop Stopplösung Solution d'arrêt Solución de paragem	Casumas L.			
Controlo positivo Controlo positivo Θετικός μάρτυρας Negative control Controlo negativo Negative control Controlo negativo Negative control Controlo negativo Negative control Controlo negativo Apvητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x concentrado) tampones de lavado (x concentrado) tampones de lavado (x concentrado) tampones de lavado (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης SUB SUB SUB SUB Controlo negativo DIL DIL DIL DIL DIL Diluente campione Verdünnungspuffer Diluant Tampón diluyente Tampón diluyente Tampón diluyente Tampón diluyente Tampón diluyente Tampón diluyente Tonjugate Conjugate Conjugate Conjugate Conjugate Conjugate Conjugado Conjugado Conjugado Conjugado Συζυγές STOP solution Soluzione di stop Stopplösung Solution d'arrêt Solución de parada Solução de paragem	CONTROL +		CONTROL +	
Controlo positivo ΘΕΤΙΚός μόρτυρας Negative control Controllo negativo Negativkontrolle Contrôle negativo Negativkontrolle Contrôle negativo Controlo negativo Aρνητικός μόρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentraé) (x concentrado) tampõnes de lavado (x concentrado) tampõnes de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrat Substrat Substrat Substrato Substrate Substrato			JOH NOL 1	
Oριακής τιμής Negative control Controllo negativo Negativkontrolle Controlo negativo Controlo negativo Controlo negativo Aρνητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentrado) tampones de lavado (x concentrado) tampones de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrat Substrat Substrat Substrat Substrat Substrato				
Negative control Controllo negativo Negativkontrolle Contrôle négatif Control negativo Control negativo Control negativo Control negativo Control negativo Control negativo Aρνητικός μάρτυρας (x concentrated) wash buffer Tampão de diluição Pυθμιστικό διάλυμα αραίωσης Conjugate Conjugado Conjugado Conjugado Conjugado Conjugado Conjugado Conjugado Συζυγές Substrate Substrate Substrate Substrate Substrato Subst	1			
Controllo negativo Negativkontrolle Controlo negativo Controlo negativo Controlo negativo Aρνητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentrado) tampones de lavado (x concentrado) tampõnes de lavagem (x συγκὲντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrate Substrat Substrat Substrato				
CONTROL Contrôle négatif Contrôle négatif Contrôle négatif Controlo negativo Controlo negativo Aρνητικός μάρτυρας Conjugate		Negative control		Diluent
CONTROL Contrôle négatif Contrôle négatif Contrôle négatif Controlo negativo Controlo negativo Aρνητικός μάρτυρας Conjugate		Controllo negativo		Diluente campione
CONTROL - Controlo negatif Controlo negativo Apνητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentrado) tampones de lavado (x concentrado) tampõe de lavagem (x concentrado) tampõe de lavagem (x concentrado) tampõe de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης SUB SUB SUBStrate Solución de parada Solução de paragem				
Controlo negativo Controlo negativo Controlo negativo Aρνητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentrado) tampones de lavado (x concentrado) tampõnes de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrate Substrat Substr	CONTROL		DII	
Controlo negativo Αρνητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentrad) tampon de lavage (x concentre) (x concentrado) tampones de lavado (x concentrado) tampõnes de lavado (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrate Substrat Substrat Substrat Substrat Substrato	33111102			
Aρνητικός μάρτυρας (x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentrado) tampones de lavado (x concentrado) tampõnes de lavado (x concentrado) tampõnes de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrate Substrat Substrat Substrat Substrato				
(x concentrated) wash buffer Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentré) (x concentrado) tampones de lavado (x concentrado) tampõo de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrate Substrat				
Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentré) (x concentrado) tampones de lavado (x concentrado) tampõnes de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrate Substrat Substrat Substrat Sustrato Substrato Soluzione di stop Stopplösung Solution d'arrêt Soluzión de parada Solução de paragem				
Tampone di lavaggio (concentrato x) (x konzentrierte) Spülpufferlösung tampon de lavage (x concentré) (x concentrado) tampones de lavado (x concentrado) tampõnes de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrate Substrat Substrat Substrat Sustrato Substrato Soluzione di stop Stopplösung Solution d'arrêt Soluzión de parada Solução de paragem		(x concentrated) wash buffer		Conjugate
CONJ COnjugat		Tampone di lavaggio (concentrato x)		
WASH x tampon de lavage (x concentré) (x concentrado) tampõnes de lavado (x concentrado) tampõnes de lavagem (x συγκὲντρωση) Ρυθμιστικό διάλυμα πλύσης Conjugado Conjugado Conjugado Συζυγές Substrate Substrate Substrat Substrat Substrat Substrato Solução de paragem				
(x concentrado) tampones de lavado (x concentrado) tampão de lavagem (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrato Substrat Substrat Substrat Substrat Substrat Substrato Substrat Substrato Substrat Substrato Substrat Substrato Solução de paragem	WASH Ly		CONT	
Conjugado (x συγκέντρωση) Ρυθμιστικό διάλυμα πλύσης Substrate Substrato Substrat			00110	
ζί x συγκέντρωσή) Ρυθμιστικό διάλυμα πλύσηςΣυζύνέςSubstrate Substrato SubstratSTOP solution Soluzione di stop StopplösungSUBSubstrat Substrat Substrato SubstratoSTOPSubstrato SubstratoSolución d'arrêt Solución de parada Solución de paragem				
Substrate Substrate Substrato Substrat				
Substrato Substrat Substrat Substrat Sustrato Substrat Sustrato Substrato Solucion di stop Stopplösung Solution d'arrêt Solución de parada Solução de paragem				
Substrato Substrat Substrat Substrat Sustrato Substrat Sustrato Substrato Solucion di stop Stopplösung Solution d'arrêt Solución de parada Solução de paragem		Substrate		STOP solution
SUB Substrat Substrat Substrat Substrat Substrat Substrato Substrat Substrato Substrato Substrato Substrato Substrato Substrato Substrato Substrato Solução de paragem				
SUB Substrat Sustrato Substrato Subs				
Sustrato Solución de parada Substrato Solução de paragem	SUR		STOP	
Substrato Solução de paragem	305		5,01	
Υπόστρωμα Διάλυμα διακοπής της αντίδρασης				
		Υπόστρωμα		Διάλυμα διακοπής της αντίδρασης

3.2 Antigen used

S. cerevisiae (Mannan) Saccharomyces cerevisiae phosphopeptido-Mannan purified from S.cerevisiae

1. MATERIAL REQUIRED BUT NOT PROVIDED

- Microtiter plate reader (450 nm reading filter + optional 650 nm reference filter)
- Glass ware, test tubes for the dilutions
- Precision pipettes
- Optional: Microplate washing device (multichannel pipette or automated system)
- Absorbent paper





5. STORAGE

- Store all reagents and microwells at 2-8°C throughout its validity period (see expiration date on the kit). Do not freeze.
- After initial opening of the kit, unused reagents must be stored at 2-8°C protected from (sun)light preferably inside the original kit box. Unused microwell strips have to be placed back into the provided pouches with the absorbent packet, sealed and stored at 2-8°C preferably inside the original kit box. When stored properly, all test kit components are stable until the indicated expiry date.
- Once prepared (refer to 9.2), the washing solution is stable for 1 month at 4°C.

6. SAFETY PRECAUTIONS

- 1. All reagents are for in vitro diagnostic and professional use only. The test kit should be processed by qualified technical staff only.
- 2. All human source material used for some reagents of this kit (controls, calibrators) has been tested and found negative for HbsAg, for Hepatitis C and for HIV 1 and 2 antibodies by approved methods. However, no test can guarantee the absence of viral agents in such material completely. Thus, handle kit controls, calibrators and patient samples as if capable of transmitting infectious diseases.
- 3. The reagents in the kit are considered as not dangerous, as the concentrations of potentially dangerous chemicals are below the thresholds specified by European regulations. More information is available on the MSDS of the kit (available upon request or on Alphadia website www.alphadia.be).
 - Nevertheless, the product contains preservatives which may have (in their given concentration), slightly polluting properties or causing skin sensitization. Therefore, contact with the skin, eyes or mucous membranes should be avoided. As with any chemical containing specific hazards, the product/components of the product should only be handled by qualified personnel and with the necessary precautions.
- 4. Patient samples should be handled as if they were capable of transmitting infectious diseases; they therefore require suitable protection (gloves, laboratory coat, goggles). In any case, GLP should be applied with all the general or individual safety rules in force.
- 5. Waste disposal: Patient samples, calibrators and incubated ELISA wells and used reagent vials should be handled as infectious waste. The boxes and other containers do not need to be collected separately, unless stated otherwise in official regulations.

7. RECOMMANDATIONS

- 1. Alphadia and its authorized distributors cannot be held responsible for damages caused indirectly or due to: a change or modification in the indicated procedure, an improper use of the kit and / or the use of an incomplete or damaged kit. The use of this kit is reserved for qualified technical personnel only.
- 2. Alphadia's responsibility is limited in all cases to the replacement of the kit.
- 3. In the event of a serious incident (injury, deterioration in health, or death) with this IVD device, please report it immediately to the manufacturer (see address below) and to the competent authority in your country.

8. SAMPLE COLLECTION, HANDLING AND STORAGE

The test should preferably be used on recently collected sera samples only! Sera with particles should be centrifuged at low speed. Blood samples should be collected in dry tubes or tubes containing EDTA or heparin. Please avoid using a pool of different sera, as this can lead to inconsistent results (see point 10.4). After separation, the serum samples should be used immediately or aliquoted and stored at 2-8 ° C (for storage for a few days) or frozen at -20°C (for longer storage periods). Repeated freezing/ thawing cycles of the samples must be avoided.

9. ASSAY PROCEDURE

Description of CONTROLS and CALIBRATORS:

No reference material or International standards are available for the anti-s.cerevisiae antibodies.

The **calibrators**, as well as the **Negative and Positive Controls**, consist of a high positive anti-s.cerevisiae sample, prepared in serial dilution. The calibration curve is reflecting the binding kinetic of the antibodies on the immobilized antigen.

The Cut-Off Control is calibrated to be the threshold value for the final interpretation of the results (see 10).

9.1 Samples

- Dilute serum samples 1:51 with sample diluent (ready-to-use)
 - \rightarrow e.g. 500 μ l diluent + 10 μ l serum. Mix.

9.2 Wash buffer

- Dilute the concentrated Wash buffer 1:20 with distilled water
 - * Manual washing: Prepare 10 ml final volume per 8 wells or 120 ml for 96 wells
 - \rightarrow e.g. 9.5 ml water + 0.5 ml buffer. Mix.
 - * Automated washing: consider excess volumes required for setting up the instrument and dead volume of robot pipette.

9.3 Microwells

• Calculate the number of wells required for the test. Remove unused wells from the frame, replace and store them in the provided plastic bag, sealed tightly

9.4 Pipetting Scheme

Make sure all reagents are at room temperature before use (18-25°C).





- Pipette 100 μ I of each patient's diluted serum into the designated microwells.
- **Pipette 100 μl calibrators and controls** into the designated wells.
- Incubate for 30 minutes at room temperature (18-25°C).
- Wash 3 X with 200 µl washing buffer (diluted 1:20).
- Pipette 100 μl conjugate into each well.
- **Incubate** for **30 minutes** at room temperature (18-25°C).
- Wash 3 X with 200 µl washing buffer (diluted 1:20).
- Pipette 100 µl substrate into each well.
- **Incubate** for **10 minutes** at room temperature (18-25°C).
- Pipette 100 µl stop solution into each well, using the same order as pipetting the substrate.
- Read absorbance at 450 nm (optionally 450/650 nm) within 30 minutes.

NOTE: We recommend to pipette a blank in duplex with each run (sample diluent only, instead of a patient's sample)

Manual washing procedure

Discard liquid from wells by inverting the plate. Knock the microwell frame with wells down-sided vigorously on clean absorbent paper. Pipette 200 µl of diluted wash buffer into each well, wait for 20 seconds, repeat, discard and knock. Repeat the whole procedure twice again.

10. CALCULATION AND INTERPRETATION OF THE RESULTS

10.1 Semi-quantitative interpretation based on calibrators (reflecting the binding kinetic)

Establish the calibration curve by plotting the optical density of each calibrator with respect to the corresponding units' values. The most precise regression model of the calibration curve is the Exponential Association fitting model:

$$y = a(1 - e^{-bx})$$

where y corresponds to the measured O.D. and x corresponds to the arbitrary value in U/ml.

O.D. of each sample (y) can then be calculated in U/ml(x) based on the regression equation.

U/ml	Interpretation
< 20	Negative
20 - 29	Equivocal
>29	Positive

10.2 Semi-quantitative interpretation based on cut off value

A simple semi-quantitative interpretation of the results is possible by using the **25 U/ml** calibrator as a cut off control. Results are expressed in **B**inding **I**ndex, the ratio between the sample and the cut off's O.D.:

B.I. = Sample O.D / Cut-off O.D

A sample is **negative** when $B.I. \le 1.0$ A sample is **positive** when B.I. > 1.0

10.3 Validation of results

A test run is considered valid if the following Quality Assurance specifications are met.

If not, refer to § 10.5, check the whole procedure and repeat the test. If the problem persists call manufacturer or distributor for assistance.

	Quality Assurance specifications		
	O.D.	U/ml	
Blank (sample diluent)	< 0.100	-	
Negative control	-	≤ 20	
25 U/ml calibrator	< 50 % of calibrator 400 U/ml	-	
Positive control	> 0.800	200 - 400	

10.4 Important recommendations for the interpretation of results

1. Alphadia's kits constitute a diagnostic aid. In consequence, no diagnosis can be established solely on the basis of our kits. The results should always be interpreted by taking into account the clinical examination, the patient's history and the results obtained by other methods.

No single technique can rule out the possibility of false positive or false negative results. With this in mind, an indirect immunofluorescence test should, as far as possible, be carried out prior to the use of this ELISA kit (immunofluorescence being recognized as a reference method in autoimmunity).

2. The intensity of a result is not necessarily related to the degree of intensity of the disease, but rather to the level of antibodies detected.

TEL +32 (0) 10 68 56 10 • E MAIL : contact@alphadia.be





- 3. Low titers of auto-antibodies may occur in healthy patients. For this reason, low positive results (close to the CO, between 20 and 29 U/ml), although valid, should be considered equivocal. In such cases, the retesting of the patient, preferably by using a new sample, is recommended. If the result remains equivocal on retesting, other diagnostic tests and/or clinical information should be used to help determine the autoimmune status of the patient.
- 4. For various reasons, and under certain conditions, the kit may show a defect in performance (see 10.5 Troubleshooting). In such cases, the results are not valid and cannot be interpreted. It is recommended to repeat the test. If the error persists, please contact your distributor.
- 5. The intensity of the results may decrease when the device is used at the end of its life. However, the performance of the kit is not affected (detection of positives and negatives) under normal conditions of use and storage.
- 6. Sequential sampling (at different dates) of an autoimmune patient can sometimes lead to different results from one sample to another. This difference can have several reasons: the patient's treatment, the evolution of the disease, or a seroconversion. In the specific case of seroconversion, the result can be positive for an auto-antibody in an early sampling of the patient, and become positive for another auto-antibody in a later sampling of the same patient.

10.5 Troubleshooting

Troubleshooting	
Problem	Possible causes + Action
Discrepancy of results as compared to a reference method	- Use - incorrect pipetting of serum - incorrect volume dispensed - erroneous reading, inappropriate reader filter (use 450 nm or 450/650nm → repeat the test - Use of two different samples of the same patient (see point 10.4.6) or wrong sample handling/storage between tests - Material - Material - Sample is a pool of different human sera → repeat the test and confirm by other methods - Method - intrinsic performance of the kit (see 11.2 Analytical sensitivity and specificity) - expired kit - stability problem
	Please contact your distributor for any further technical support requests.
Different results in the same batch or between several batches	- Use - incorrect pipetting of serum - incorrect volume dispensed - erroneous reading, inappropriate reader filter (use 450 nm
	or 450/650nm) → repeat the test - Method - intrinsic performance of the kit (see 11.1 Repeatability and Reproducibility)
Contamination between neighbouring wells	- Use - incorrect pipetting of serum / reagents → repeat the test
Poor reaction / O.D too low	- Use - erroneous reading, inappropriate reader filter (use 450 nm or 450/650nm) → repeat the test - damaged reagents → check the integrity of the reagents → contact your supplier if you suspect a problem - wash under-diluted or sample over-diluted → repeat the reagent preparation
Non-specific bindings / high background / O.D. too high	- Material - Interfering substance in the sample
Kit not correctly labelled	Manufacturing problem → please contact your distributor
Kit content incorrect	Manufacturing problem → please contact your distributor

NOTE:

The major residual risks of the kit, as given in the risk analysis of the kit at the end of design (after mitigation), are the following:

- 1) Risk of false results based on a pipetting error (wrong serum)
- 2) Risk of false results based on an interfering substance contained in the sample





11. PERFORMANCES

11.1 Repeatability and Reproducibility

Reference samples were tested in successive statistically representative series, both in the same test as in different tests and between different batches in order to calculate the intra-assay, inter-assay and inter-lot variations respectively.

In all the cases, the variations in optical density were within the following expected limits:

CV ≤ 10% for intra-assay runs

CV ≤ 15% for inter-assay runs

CV ≤ 20% for inter-lot runs

11.2 Analytical sensitivity

Measurement range: From 0 U/ml (negative) to 400 U/ml (high positive)

Limit of blank (O.D) = 0,099.

As no international standard is available for the auto-antibodies, trueness of measurement is not applicable on this product.

11.3 Analytical specificity

1. The main known interfering substances were tested on the present kit.

For each concentration of interfering substance tested, the difference between the result of the sample without the interfering substance and the result obtained in the presence of the interfering substance did not exceed 15%.

Interfering substance	Maximum	aximum Intermediate Mir		Difference <15%
	Concentration	Concentration	Concentration	
Bilirubin	100 mg/dL	50 mg/dL	25 mg/dL	Yes
Haemoglobin	200 mg/dL	100 mg/dL	50 mg/dL	Yes
Cholesterol	224.3 mg/dL	112 mg/dL	56 mg/dL	Yes
Rheumatoid factor IgM	~500IU/ml	~300IU/ml	~100IU/ml	Yes

Note: It is impossible to test all the possible interfering substances described in the literature. Other interferences, amongst others drug-induced interferences, are possible.

2. The high analytical specificity of the test is guaranteed by the quality of the antigen used. This kit detects IgA antibodies against S.cerevisiae. No cross reactions with other autoantibodies have been found.

11.4 Clinical Sensitivity and Specificity

Characterized samples (confirmed positive or negative for specific antibodies by reference laboratories and/or methodologies) were assayed following the test instructions. Sensitivity and Specificity were calculated from the results obtained by external performance evaluations and EQAs control programs. A detailed clinical report is available upon request.

S. cerevisiae IgA		
+	-	
True positive 84	False positive 5	
False negative 20	True negative 281	
Sensitivity	84 = 81 %	
Specificity	$\frac{281}{286} = 98 \%$	

Publication references:

- 1. Degenhardt F, Dirmeier A, Lopez R, Lang S, Kunst C, Roggenbuck D, Reinhold D, Szymczak S, Rogler G, Klebl F, Franke A, Rieder F. Serologic Anti-GP2 Antibodies Are Associated with Genetic Polymorphisms, Fibrostenosis, and Need for Surgical Resection in Crohn's Disease. Inflamm Bowel Dis. 2016 Nov;22(11):2648-2657. doi: 10.1097/MIB.00000000000000936. PMID: 27753692; PMCID: PMC5082182.
- Abu-Freha N, Badarna W, Sigal-Batikoff I, Abu Tailakh M, Etzion O, Elkrinawi J, Segal A, Mushkalo A, Fich A. ASCA and ANCA among Bedouin Arabs with inflammatory bowel disease, the frequency and phenotype correlation. BMC Gastroenterol. 2018 Oct 20;18(1):153. doi: 10.1186/s12876-018-0884-x. PMID: 30342474; PMCID: PMC6195956.
- 3. Watanabe K, Matsumoto T, Hisamatsu T, Nakase H, Motoya S, Yoshimura N, Ishida T, Kato S, Nakagawa T, Esaki M, Nagahori M, Matsui T, Naito Y, Kanai T, Suzuki Y, Nojima M, Watanabe M, Hibi T; DIAMOND study group. Clinical and Pharmacokinetic Factors Associated With Adalimumab-Induced Mucosal Healing in Patients With Crohn's Disease. Clin Gastroenterol Hepatol. 2018 Apr;16(4):542-549.e1. doi: 10.1016/j.cgh.2017.10.036. Epub 2017 Nov 11. PMID: 29104132.
- 4. Xiao N, Liu F, Zhou G, Sun M, Ai F, Liu Z. Food-specific IgGs Are Highly Increased in the Sera of Patients with Inflammatory Bowel Disease and Are Clinically Relevant to the Pathogenesis. Intern Med. 2018 Oct 1;57(19):2787-2798. doi: 10.2169/internalmedicine.9377-17. Epub 2018 May 18. PMID: 29780153; PMCID: PMC6207831.
- 5. Karsten Conrad, Werner Schössler, Falk Hiepe, Marvin J. Fritzler, Book "Autoantibodies in Organ Autoimmune Diseases", Volume 8, second edition 2017





11.5. Auto-antibody diagnostic value

Anti-S. cerevisiae	Diagnostic marker of <i>Crohn's Disease</i> .	
	Anti-ASCA have a sensitivity up to 76%, and a specificity of up to 98% for Crohn's Disease.	
	The prevalence in cases of <i>ulcerative colitis</i> is low (2-16%). Anti-ASCA are also detectable in newly	
	diagnosed celiac patients, mainly in adults (14-30%). Their level decreases during a gluten-free diet.	
	Anti-ASCA can be found in cases of primary biliary cirrhosis (PBC) (6-24%), primary sclerosing cholangitis	
	(44%), Behçet disease (42%), Spondylitis (19-25%) or in healthy subjects (3-10%).	

12. TEST LIMITATIONS

- 1. The results obtained with this confirmatory test are dependent on the intrinsic performance of the kit and must be considered as an aid to the final diagnosis, taking into account the results obtained by reference technique and the clinical data of the patient.
- 2. In case of hyper-lipemic samples, it is recommended to centrifuge it before the pipetting of the $10\mu l$ of sample, which must be done into the supernatant.



Version B CORR1 Last revision: 07/2022 **D-tek s.a.** Parc Initialis, rue René Descartes 19 BE-7000 Mons - BELGIUM



