Symbol	EN	FR	ES	ΙΤ	DE	PT	HR	SV	NL
Σ	Sufficient for <n> tests</n>	Suffisant pour <n> tests</n>	Suficiente para <n> pruebas</n>	Sufficiente per <n> analisi</n>	Inhalt ausreichend für <n> Prüfungen</n>	Suficiente para <n> testes</n>	Dostatno za <n> testova</n>	Räcker till <n> tester</n>	Voldoende voor <n> tests</n>
Ţį.	Read instruction for use	Veuillez lire les Instructions d'utilisation	Lea las instrucciones de uso	Leggere le istruzioni per l'uso	Gebrauchsanwei sung beachten	Leia as instruções de uso	Pročitati upute za uporabu	Läs bruksanvi sningen	Lees de gebruiksa anwijzing
2	Use by Date	Date de péremption	Fecha de caducidad	Usare entro	Verwendbar bis	Validade	Upotrijebiti do datuma	Används senast datum	Gebruik voor Datum
LOT	Batch code	Code du lot	Código de lote	Codice lotto	Chargenbezeich nung	Código de lote	Šifra serije	Lotnummer	Lotnummer
REF	Catalog number	Numéro de catalogue	Número de catálogo	Numero di catalogo	Katalognummer	Número do catálogo	Kataloški broj	Katalognummer	Catalogus nr.
À	Caution	Attention	Precaución	Attenzione	Gebrauchsanwei sung beachten	Atenção	Oprez	Försiktighet	Waarschuwing
***	Manufacturer	Fabricant	Fabricante	Produttore	Hersteller	Fabricante	Proizvođač	Tillverkare	Fabrikant
	Importer	Importateur	Importador	Importatori	Importeur	Importador	Uvoznik	Importörernas	Importeur
EC REP	Authorized representative of the European Community	Représentant autorisé de la Communauté européenne	Representante autorizado en la Comunidad Europea	Rappresentante autorizzato nella Comunità Europea	Bevollmächtigter in der Europäischen Union	Representante autorizado da Comunidade Europeia	Ovlašteni predstavnik Europske zajednice	Behörig företrädare för Europeiskage menskapen	Bevoegde verte genwoordiger van de Europes Gemeenschap
IVD	In vitro diagnostic medical device	Dispositif médical de diagnostic in vitro	Dispositivo médico de diagnóstico In vitro	Dispositivo medico- diagnostico in vitro	Bevollmächtigter in der Europäischen Union	Dispositivo médico para diagnóstico in vitro	In vitro dijagnostički medicinski uređaj	Medicinsk utrustning för in vitro- diagnostik	In vitro diagnostisch medisch hulpmiddel
1	Temperature limit	Limite de température	Límite de temperatura	Limite di temperatura	Temperaturbegr enzung	Limite de temperatura	Temperaturni režim	Temperatur gräns	Temperatuur grens
(3)	Do not reuse	Ne pas réutiliser	No reutilizar	Non riutilizzare	Nicht zur Wiederverwen dung	Não reutilizar	Ne ponovno upotrijebiti	Återanvänd inte	Niet opnieuw gebruiken
CE	This product fulfills the requirements of the Directive 98/79/EC on in vitro diagnostic medical devices	Ce produit est conforme aux exigences de la Directive 98/79/EC sur les dispositifs médicaux de diagnostic in vitro	Este producto cumple con los requisitos de la Directiva 98/79/EC sobre dispositivos de diagnóstico In vitro	Questo prodotto soddisfa i requisiti della Direttiva 98/79/CE sui dispositivi medici diagnostici in vitro	Dieses Produkt entspricht den Anforderungen der europäischen Richtlinie 98/79/EG über In-vitro-Diagnost ika	Este produto cumpre os requisitos da Diretiva 98/79/CE sobre dispositivos médicos de diagnóstico in vitro	Ovaj proizvod ispunjava zahtjeve Direktive 98/79/EC o in vitro dijagnostičkim medicinskim uređajima	Denna produkt uppfyller kraven i direktiv 98/79/EG om medicintekniska produkter för in vitro-diagnostik	Dit product voldoet aan de vereisten van de Richtlijn 98/79/EG op in vitro diagnostisch medisch hulpmiddelen

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ez-Tracker Anti-Adalimumab

INTENDED USE

ez-Tracker Anti-Adalimumab is a fluorescence Immunoassay (FIA) for the semi-quantitative determination of antibodies against adalimumab in human whole blood/serum.

For in vitro diagnostic use only.

INTRODUCTION

Adlimumab is a fully human monoclonal antibody which is administered a subcutaneously as a biological therapeutic agent for the treatment of rheumatodi arthritis and other Tumor Necrosis Factor-or mediated chronic debilitating diseases. [14] Adlimumab is a defective in maintaining long-sterm response and remission in the patients with funnial Confus disease. [14] However, during the addimumab treatment some patients have developed antibrok against addimumab.

patients have dev patients have developed antibody against adalimumab which alter the pharmacokinetics and having negative impact on clinical outcomes, therefore approximately 35% of patients were failed to respond for adalimumab

35% of platelis were laieu to telopion in dauliniumal berapy, lischight et energy temperature in adalimumab antibodies has a greater impact for the etiology of treatment failure, lischight ex-Tracker Anti-Adalimumab is used for a semi-quantitative detection of free antibodies to adalimumab in serum and whole blood. This test could help to have a relevant information about appropriate therapeutic treatment.

PRINCIPLE

ez-Tracker Anti-Adalimumab test uses a bridging ee-Tracker Anti-Adalimumab test uses a bridging immunoassay for detection of antibodies to adalimumab. Anti-adalimumab antibodies from sample are bridged with fluoreset and biotin labeled adalimumab which results in formation of an immune complex. This immune complex is migrated through introcellulose matrix and are captured by the immobilized streptavidin on the test strip. The more antibodies to adalimumab in the sample forms the more immune complex and leads to stronger intention of fluorescent but which is more proposed by

intensity of fluorescence signal which is processed by the instrument for ez-Tracker tests to show antiadalimumab antibodies concentration.

COMPONENT

- ez-Tacker Anti-Adalimumab consists of 'cartridges'.

 «Each sealed aluminum pouch contains two cartridges.

 Each cartridge packaged in an aluminum pouch has three components including a cartridge part, a detector part, and a diluent part.

 «The cartridge part contains the membrane called a test strip which has streptandid in at the test line, and chicken lgy' at the control line.

- ■The detector part contains adalimumab-fluorescence • In electeror part contains adaimumab-inforescence conjugate, adalimumab-biotin conjugate, mouse IgG, sucrose, bromophenol blue, and bovine serum albumin (BSA) as a stabilizer in tris-hydrochloride buffer.
 • The diluent part contains tween 20, sodium chloride, and sodium aide as a preservative in tris hydrochloride buffer.

WARNING AND PRECAUTIONS

- For in vitro diagnostic use only.
- Follow the instructions and procedures described in
- ■POllow the instructions and procedures described in this 'instructions for use'.

 ■Use only fresh samples and avoid direct sunlight.

 ■Lot numbers of all the test components (cartridge and in the state of the st
- United to all and ess components, learninge and ID chip) must match each other.

 Do not interchange the test components between different lost or use the test components after the expiration date, either of which might yield incorrect test results).

 Do not reuse cartridges. A cartridge should be used for testing one sample only.
- testing one sample only.

 The cartridge should remain sealed in its original
- pouch until just before use. Do not use a cartridge, if pouch until just before use. Do not use a cartridge, the pouch is damaged or has already been opened.
 Frozen sample should be thawed only once. For shipping, samples must be packed in accordance with local regulations. Sample with severe hemolysis and/or hyperlighemia must not be used.

 If test components and/or sample are stored in refrigerator, then allow cartridge and sample to be at room temperature for approximately 30 minutes before use.

 The language of the state of the stat

- ■The instrument for ez-Tracker tests may generate slight vibration during use.
 ■Used cartridges, C-tips and pipette tips should be handled carefully and discarded by an appropriate method in accordance with relevant local regulations.
 ■The cartridge contains sodium azide (NaN), and they may cause certain health issues like convulsions, bus blood pressure and heart rate, loss of consciousness, lung injury and respiratory failure. Avoid contact with skin, eyes, and clothing. In case of contact, rinse immediately with running water.
 ■No Biotin interference was observed in ez-Tracker Anti-Adalimumab when biotin concentration in the sample SOO norml was below, if a aatient has been
- sample 500 ng/mL was below. If a patient has been sample 500 ng/ml was below. If a patient has been taking biotin at dosage of more than 0.03 mg a day, it is recommended to test again 24 hours after discontinuation of biotin intake. Powide accurate ex-Tracker Anti-Adalimumab will provide accurate and reliable results subject to the below conditions. ex-Tracker Anti-Adalimumab should be used only in conjunction with the instrument for the instrument for ex-Tracker tests. Have to use recommended anticoaeulant.

ve to use recommended anticoagulant.	
Recommended anticoagulant	
K, EDTA, Na, EDTA, Sodium citrate.	

Lithium heparin, Sodium heparin C-tip should be used when the following conditions

- are met.
 -C-tip provided with the kit is recommended to 1-cup provided with risk is recommended to obtain correct test result.

 - Capillary blood should be immediately tested after collection.

 - Do not perform a test with C-tip on General Mode.

 It might cause an erroneous result.

 - Excess capillary blood around the C-tip should be without off.

- wiped off.
 In order to avoid cross-contamination, please do
- not re-use C-tip for multiple samples. not re-use C-tip for multiple samples.
 -ez-Tracker cartridge should be inserted and
 positioned in the cartridge holder prior to the
 blood sample collection.
 -while collecting blood, be careful not to create air
 bubbles in the C-tip.

LIMITATIONS OF THE TEST SYSTEM

- The test may yield false positive result(s) due to the cross-reactions and/or non-specific adhesion of certain sample components to the capture/detector antibodies.
- ■The test may yield false negative result(s) due to the non-responsiveness of the anti-drug antibody which is the most common if the epitope is masked by some unknown components, so therefore not being some unknown components, so therefore not being able to be detected or captured by the antibodies. The instability or degradation of the anti-drug antibody with time and/or temperature may also cause false negative result as it makes the drug unrecognizable by the antibodies. Other factors may interfere with the test and cause erroneous results, such as technical/procedural errors, degradation of the test components/reagents or presence of interfering substances in the test samples.
- samples.

 Any clinical diagnosis based on the test result must be supported by a comprehensive judgment of the concerned physician in conjunction with clinical symptoms and other relevant test results.

STORAGE AND STABILITY

	Storage condition					
	Component	Storage Temperature	Shelf life	Note		
	Cartridge	2-30°C	20 months			
	-		1 months	Resealed		
•	Return an	unused cartridge g containing the	to the sp	are cartridge		
		re edge of zip-seal.		pack. Reseal		

MATERIALS SUPPLIED

_			
DEE	CTA	003-24	

Components of ez-Tracker Adalimumab				
Cartridge	CART	24		
Pipette tip (Zipper bag)	P-T	24		
C-tip (Zipper bag)	C-T	24		
ID chip	ID-C	1		
Spare cartridge zipper bag	SCZB	1		
Instructions for use	IFU	1		

MATERIALS REQUIRED BUT SUPPLIED

Following items can be purchased separately from ex-Tracker Anti-Adalimumab.

Please contact our sales division for more information.

••e2-Track*

information.

=ez-Track¹

=ez-Tracker Anti-Adalimumab Control

=ez-Tracker Anti-Adalimumab Calibrator

EEF ETA 003-CAL

SAMPLE COLLECTION AND PROCESSING

- The sample type for ex-Tracker Anti-Adalimumab is human whole blood/serum.

 It is recommended to test the sample within 24 hours after collection.

 The serum should be separated from the clot by centifugation within 3 hours after the collection of whole blood.

 The serum may be stored for a week at 2 8°C prior to being tested. If testing will be delayed more than a week, serum should be frozen at -20°C.

 The serum stored forzen at 20°C for 1 month showed no performance difference.

 However, the whole blood sample should not be kept

- no performance difference.

 However, the whole blood sample should not be kept
 in a freezer in any case.

 As a repeated freeze-thaw cycle may affect the test
 result, do not refreeze previously frozen samples.

 Collection of capillary blood sample using C-tip
- (1) Hold the C-tip horizontally and touch the surface of
- blood drop with the tip of the C-tip.
- Capillary action will automatically draw the blood sample to C-tip and stop.
- (3) Wipe off any excess blood around the tip.
- Double-check if capillary blood is filled accurately in the C-tip and instrument for ez-Tracker tests is ready for a test on the 'C-tip mode'

TEST SETUP

- ■Check the components of the ez-Tracker Anti-Adalimumab as described below: Cartridges, pipette
- Adalmumab as described below: Cartridges, pipette tips, Ctips, and Do thip, a spare cartridge zipper bag and an instructions for use.

 Ensure that the lot number of the cartridge matches that of the ID chip.

 If the sealed cartridge has been stored in a refrigerator, place them on a clean and flat surface at room temperature for at least 30 minutes before testing.

 Turn on the instrument for ez-Tracker tests.

 Frenoty the fire box.
- ■Empty the tip box. ■Insert the ID chip into the 'ID chip port'.
- Please refer to the instrument for ex-Tracker tests operation manual for complete information and operating instructions.

TEST PROCEDURE

- General mode

 1) Insert a cartridge into the cartridge holder.
 2) Insert a tip into the tip hole of the cartridge.
 3) Select the General mode in the instrument for ez-Tracker tests.
 4) Take 100 µL of the sample (whole blood, serum/control) using a pipette and dispense i into the sample well of the cartridge.
 5) Tap the 'Start' button on the screen.
 6) The test result will be displayed on the screer after 12 miuntes

- C-tip Mode

 1) Insert a cartridge into the cartridge holder. | Insert a cartridge into the cartridge numer.
 | Take 30 µL of capillary blood using a C-tip.
 | Take 30 µL of capillary blood-filled C-tip into the tip
- hole of the cartridge.
 Select the 'C-tip mode' in the instrument for ex
- 4) Select the 'C-tip mode' in the instrument for ex-Tracker tests.
 5) Tap the 'Start' button on the screen.
 6) The test result will be displayed on the screer after 12 minutes.

INTERPRETATION OF TEST RESULT

- The instrument for ex-Tracker tests calculates the test result automatically and displays anti-adalimumab concentration of the test sample in terms AU/mL.

 Working range: 3 200 AU/mL

 The cut-off: 10 AU/mL**

Range	Interpretation
> 10 AU/mL	Positive
< 10 ALI/ml	Negative

QUALITY CONTROL

- Quality control tests are a part of the good testing practice to confirm the expected results and validity of the assay and should be performed at regular
- of the assay and should be performed at regular intervals. Quality control tests should also be performed whenever there is any question concerning the validity of the test results.

 Control materials are provided on demand with exTracker Anti-Adalimumab. For more information regarding obtaining the control materials, contact
 Theradiag's Sales Division for assistance.

 (Please refer to the instructions for use of control material)

PERFORMANCE CHARACTERISTICS

- | Analytical sensitivity | Limit of Blank (Loß) | 1.20 AU/mL | Limit of Tection (Loß) | 3.00 AU/mL | Limit of Tection (Loß) | 3.00 AU/mL | High-dose Hook Effect | There is no high-dose hook effect at anti-adalimumab concentration up to 2,000 AU/mL | Analytical specificity | Analytical Specifici

Cross-reactivity
ez-Tracker Anti-Adalimumab test results did not
show any significant cross-reactivity with these
biomolecules.

Cross-reactivity materials	Concentration
Infliximab	100 μg/mL
Etanercept	100 μg/mL
Golimumab	100 μg/mL
Anti-infliximab antibody	1,000 ng/mL
Anti-etanercept antibody	1,000 ng/mL
Anti-golimumab antibody	1,000 ng/mL

Interference
Interferents listed in the following table were added to the test sample at the concentration mentioned below. ez-Tracker Anti-Adalimumab test results did not show any significant interference with these materials.

Interference materials	Concentration
Hemoglobin	1,000 mg/dL
Bilirubin	40 mg/dL
Triglyceride	1,500 mg/dL
Rheumatoid factor	200 IU/mL
Human serum albumin	6 g/dL

Single-site study
Repeatability (within-run precision)
within-laboratory precision (Total precision)
Lot to lot precision

3 Lots of ex-Tracker Anti-Adalimumab were tested for 20 days. Each standard material was tested 2 times per day. For each test, each material was duplicated.

Multi-site study

T Lot of ez-Tracker Anti-Adalimumab was tested for 5 days in 3 different sites (1 person per 1 site, 1 instrument per 1 site). Each standard material was tested 1 time per and 5 replicates per day.

Anti Addienable Recordible T Conference

Anu-Augiinnumau	riepea	latility	i Utai pr	eusion
antibody [AU/mL]	AVG	CV (%)	AVG	CV (%)
12	11.86	6.4	11.75	6.5
50	48.99	7.3	49.16	6.6
100	96.86	5.7	97.19	6.5
Anti-Adalimumab	Lat to lat	precision	Reprod	udbility
antibody [AU/mL]	AVG	CV (%)	AVG	CV (%)
12	11.91	6.6	12.04	5.8
50	48.78	7.6	50.08	5.5
100			100.82	5.4

■Accuracy

The accuracy was confirmed by testing with 3 different lots of ez-Tracker Anti-Adalimumab. The tests were repeated 10 times at each concentration of the control standard

or the control standard.							
Anti-Adalimumab antibody [AU/mL]	Lot 1	Lot 2	Lot 3	AVG	Recovery (%)		
29.00	28.79	29.08	28.74	28.87	99.5		
67.00	64.81	67.90	67.86	66.86	99.8		
86.00	86.50	86.64	83.89	85.68	99.6		
124.00	124.80	125.51	125.91	125.40	101.1		
143.00	142.31	147.54	139.82	143.22	100.2		
181.00	178.32	185.68	181.81	181.93	100.5		

■Clinical performance evaluation ez-Tracker Anti-Adalimumab has demonstrated the

Total (N=55)		n	ez-Tracker Anti-Adalimumab				
			Positive	Negative			
Comparator	Positive	11	10	1			
A	Negative	44	2	42			
Positiv (>1		90	.9%				
Negati (≤)		95	.5%				
Total		94	.5%				

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