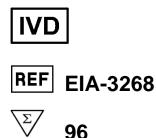


Digoxin ELISA



CE





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DRG International, Inc., USA 841 Mountain Ave., Springfield, NJ 07081 Phone: (973) 564-7555, Fax: (973) 564-7556 Website: www.drg-international.com E-mail: corp@drg-international.com Please use only the valid version of the Instructions for Use provided with the kit. Verwenden Sie nur die jeweils gültige, im Testkit enthaltene, Gebrauchsanweisung. Si prega di usare la versione valida delle istruzioni per l'uso a disposizione con il kit. Por favor, use sólo la versión válida de las instrucciones de uso que se suministran con el kit. Utilisez seulement la version valide des Instructions d'utilisation fournies avec le kit. Por favor, usar a versão válida das instruções de utilização fornecidas com o kit.

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1 INTENDED USE

The Quantitative Determination of Digoxin Concentration in Human Serum or Plasma by a Microplate Enzyme Immunoassay, Colorimetric

2 SUMMARY AND EXPLANATION OF THE TEST

The clinical usefulness of the measurement of serum digoxin (DIG) is due to its low therapeutic ratio; a very small difference exists between therapeutic and toxic tissue levels. In addition, individuals may vary in their response to digoxin with an apparent increase in susceptibility to toxicity with age.¹

The action of digoxin is to increase the force and velocity of myocardial contraction. This is necessary in the treatment of congestive heart failure and arrhythmias such as atrial fibrillation and atrial flutter.²

The myocardial concentrations of digoxin to serum levels remain relatively constant during normal renal function. This distribution ratio of digoxin is approximately 29 to 1 between the heart and serum.³ Thus, monitoring digoxin therapy by measurement of serum levels is feasible from the pharmacological standpoint, since serum levels are related to tissue levels following post-absorption equilibration.¹ A practical and sensitive method of digoxin quantitation in serum is by enzyme immunoassay.

This microplate enzyme immunoassay methodology provides the technician with optimum sensitivity while requiring few technical manipulations. In this method, serum reference, patient specimen, or control is first added to a microplate well. Enzyme-digoxin conjugate is added, and then the reactants are mixed. A competition reaction results between the enzyme conjugate and the native digoxin for a limited number of antibody combining sites immobilized on the well.

After the completion of the required incubation period, the antibody bound enzyme-digoxin conjugate is separated from the unbound enzyme-digoxin conjugate by aspiration or decantation. The activity of the enzyme present on the surface of the well is quantitated by reaction with a suitable substrate to produce color.

The employment of several serum references of known digoxin concentration permits construction of a graph of activity and concentration. From comparison to the dose response curve, an unknown specimen's activity can be correlated with digoxin concentration.

3 PRINCIPLE

Competitive Enzyme Immunoassay (Type 7):

The essential reagents required for an enzyme immunoassay include antibody, enzyme-antigen conjugate and native antigen.

Upon mixing biotinylated antibody, enzyme-antigen conjugate and a serum containing the native antigen, a competition reaction results between the native antigen and the enzyme-antigen conjugate for a limited number of antibody binding sites. The interaction is illustrated by the followed equation:

ka

Enz_{Ag} + Ag + Ab_{Btn} \rightleftharpoons AgAb_{Btn} + Enz_{AgAb_{Btn}}

k_a

Ab_{Btn}= Biotinylated Antibody (Constant Quantity)

Ag = Native Antigen (Variable Quantity)

EnzAg = Enzyme-antigen Conjugate (Constant Quantity)

AgAb_{Btn=} Antigen-Antibody Complex

EnzAg Ab_{Btn} = Enzyme-antigen Conjugate -Antibody Complex

 $k_a = Rate Constant of Association$

 $k_{-a} = Rate Constant of Disassociation$

 $K = k_a / k_{-a} = Equilibrium Constant$

A simultaneous reaction between the biotin attached to the antibody and the streptavidin immobilized on the microwell occurs. This effects the separation of the antibody bound fraction after decantation or aspiration.

AgAb_{Btn} + EnzAgAb_{Btn} + <u>Streptavidin</u>cw ⇒ <u>immobilized complex</u>

<u>Streptavidin</u>_{CW}= Streptavidin immobilized on well <u>Immobilized complex</u> = sandwich complex bound to the solid surface The enzyme activity in the antibody bound fraction is inversely proportional to the native antigen concentration. By utilizing several different serum references of known antigen concentration, a dose response curve can be generated from which the antigen concentration of an unknown can be ascertained.

4 REAGENTS

4.1 Materials provided

A. Digoxin Calibrators – 1 ml/vial

Six (6) vials of serum reference for digoxin at concentrations of 0 (A), 0.25 (B), 0.5 (C), 1.0 (D), 2.0 (E) and 4.0 (F) ng/ml. Store at 2-8°C. A preservative has been added.

Digoxin Enzyme Reagent – 6ml/vial One (1) vial of Digoxin-Horseradish peroxidase (HRP) conjugate in a buffer with dye. A preservative has been added. Store at 2-8°C.

C. Digoxin Biotin Reagent - 6ml/vial

One (1) vial of reagent contains anti-digoxin biotinylated rabbit serum conjugate in buffer, dye and preservative. Store at 2-8°C.

D. Streptavidin Coated Plate – 96 wells One 96-well microplate coated with 1.0 μg/ml streptavidin and packaged in an aluminum bag with a drying agent. Store at 2-8°C.

E. Wash Solution Concentrate – 20 ml/vial One (1) vial containing a surfactant in buffered saline. A preservative has been added. Store at 2-8°C.

F. Substrate A – 7 ml/vial

One (1) vial contains tetramethylbenzidine (TMB) in buffer. Store at 2-8°C.

- G. Substrate B 7 ml/vial
 One (1) vial contains hydrogen peroxide (H₂O₂) in buffer.
 Store at 2-8°C.
- H. Stop Solution 8 ml/vial One (1) vial contains a strong acid (1N HCl). Store at 2-8°C.
- I. Product Instructions

Note 1: Do not use reagents beyond the kit expiration date.

Note 2: Avoid extended exposure to heat and light. Opened reagents are stable for sixty (60) days when stored at 2-8°C. Kit and component stability identified on the label.

Note 3: Above reagents are for a single 96-well microplate.

4.2 Required but not provided

- 1. Pipettes capable of delivering 0.025, 0.050, & 0.100 ml (25, 50 & 100 μl) volumes with a precision of better than 1.5%.
- Dispenser(s) for repetitive deliveries of 0.100 ml (100 μl) and 0.350 ml (350 μl) volumes with a precision of better than 1.5%.
- 3. Microplate washers or a squeeze bottle (optional).
- 4. Microplate Reader with 450nm and 620 nm wavelength absorbance capability.
- 5. Absorbent Paper for blotting the microplate wells.
- 6. Plastic wrap or microplate covers for incubation steps.
- 7. Vacuum aspirator (optional) for wash steps.
- 8. Timer.
- 9. Quality control materials

5 PRECAUTIONS

For In Vitro Diagnostic Use

Not for Internal or External Use in Humans or Animals

All products that contain human serum have been found to be non-reactive for Hepatitis B Surface Antigen, HIV 1&2 and HCV Antibodies by FDA licensed reagents. Since no known test can offer complete assurance that infectious agents are absent, all human serum products should be handled as potentially hazardous and capable of transmitting disease. Good laboratory procedures for handling blood products can be found in the Center for Disease Control / National Institute of Health, "Biosafety in Microbiological and Biomedical Laboratories," 2nd Edition, 1988, HHS Publication No. (CDC) 88-8395.

Safe disposal of kit components must be according to local regulatory and statutory requirement.

6 SPECIMEN COLLECTION AND PREPARATION

The specimens shall be blood, serum in type and taken with the usual precautions in the collection of venipuncture samples. The blood shall be collected in a redtop (with or without gel additives) venipuncture tube. Allow the blood to clot. Centrifuge the specimen to separate the serum from the cells.

In patients receiving therapy with high biotin doses (i.e. < 5 mg/day=, no sample should be taken until at least 8 hours after the last biotin administration, preferably overnight to ensure fasting sample.

Samples may be refrigerated at 2-8°C for a maximum period of five (5) days.

If the specimen(s) cannot be assayed within this time, the sample(s) may be stored at temperatures of -20° C for up to 30 days. Avoid use of contaminated devices. Avoid repetitive freezing and thawing. When assayed in duplicate, 0.050 ml (50µl) of the specimen is required.

7 QUALITY CONTROL

Each laboratory should assay controls at levels in the low, normal and elevated range for monitoring assay performance. These controls should be treated as unknowns and values determined in every test procedure performed. Quality control charts should be maintained to follow the performance of the supplied reagents. Pertinent statistical methods should be employed to ascertain trends. Significant deviation from established performance can indicate unnoticed change in experimental conditions or degradation of kit reagents. Fresh reagents should be used to determine the reason for the variations.

8 REAGENT PREPARATION

1. Wash Buffer

Dilute contents of Wash Solution to 1000 ml with distilled or deionized water in a suitable storage container. Diluted buffer can be stored at room temperature 20-27°C for up to 60 days.

2. Working Substrate Solution – Stable for 1 year

Pour the contents of the amber vial labeled Solution 'A" into the clear vial labeled Solution 'B'. Place the yellow cap on the clear vial for easy identification. Mix and label accordingly. Store at 2-8°C.

Note 1: Do not use the working substrate if it looks blue.

Note 2: Do not use reagents that are contaminated or have bacteria growth.

9 TEST PROCEDURE

Before proceeding with the assay, bring all reagents, serum references and controls to room temperature (20 - 27 °C).

Test Procedure should be performed by a skilled individual or trained professional

- 1. Format the microplates' wells for each serum reference calibrator, control and patient specimen to be assayed in duplicate.
 - Replace any unused microwell strips back into the aluminum bag, seal and store at 2-8°C.
- 2. Pipette 0.025 ml (25 μl) of the appropriate serum reference calibrator, control or specimen into the assigned well.
- 3. Add 0.050 ml (50µl) of Digoxin Enzyme Reagent to all wells.
- 4. Swirl the microplate gently for 20-30 seconds to mix.
- 5. Add 0.050 ml (50µl) Digoxin Biotin Reagent to all wells.
- 6. Swirl the microplate gently for 20-30 seconds to mix.
- 7. Cover and incubate for 30 minutes at room temperature.
- 8. Discard the contents of the microplate by decantation or aspiration. If decanting, blot the plate dry with absorbent paper.
- Add 0.350ml (350µl) of wash buffer (see Reagent Preparation Section), decant (tap and blot) or aspirate. Repeat two (2) additional times for a total of three (3) washes.
 An automatic or manual plate washer can be used. Follow the manufacturer's instruction for proper usage. If a squeeze bottle is employed, fill each well by depressing the container (avoiding air bubbles) to dispense the wash. Decant the wash and repeat two (2) additional times.
- Add 0.100 ml (100 μl) of working substrate solution to all wells (see Reagent Preparation Section).
 Always add reagents in the same order to minimize reaction time differences between wells.
 DO NOT SHAKE THE PLATE AFTER SUBSTRATE ADDITION
- 11. Incubate at room temperature for fifteen (15) minutes.
- 12. Add 0.050 ml (50 μl) of Stop Solution to each well and gently mix for 15-20 seconds. Always add reagents in the same order to minimize reaction time differences between wells.
- 13. Read the absorbance in each well at 450 nm (using a reference wavelength of 620-630 mn) The results should be read within thirty (30) minutes of adding the stop solution.

Note: For re-assaying specimens with concentrations greater than 4 ng/ml, pipette 12.5 µl of the specimen and 12.5 µl of the 0 serum reference into the sample well. Multiply the readout value by 2 to obtain the digoxin concentration.

10 CALCULATION OF RESULTS

A dose response curve is used to ascertain the concentration of digoxin in unknown specimens.

- 1. Record the absorbance obtained from the printout of the microplate reader as outlined in Example 1.
- 2. Plot the absorbance for each duplicate serum reference versus the corresponding Digoxin concentration in ng/ml on linear graph paper (do not average the duplicates of the serum references before plotting).
- 3. Draw the best-fit curve through the plotted points.
- 4. To determine the concentration of digoxin for an unknown, locate the average absorbance of the duplicates for each unknown on the vertical axis of the graph, find the intersecting point on the curve, and read the concentration (in ng/ml) from the horizontal axis of the graph (the duplicates of the unknown may be averaged as indicated). In the following example, the average absorbance (1.224) intersects the standard curve at (1.06 ng/ml) digoxin concentration (See Figure 1).

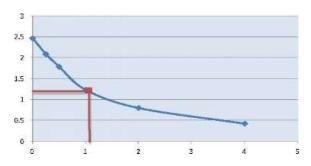
Note: Computer data reduction software designed for ELISA assays may also be used for the data reduction. If such software is utilized, the validation of the software should be ascertained.

EXAMPLE 1

Sample I.D.	Well Number	Abs (A)	Mean Abs (B)	Value (ng/ml)	
Cal A	A1	2.510	2.465	0	
	B1	2.420	2.405	0	
Cal B	C1	2.107	2.088	0.25	
	D1	2.070	2.000	0.25	
Cal C	E1	1.832	1.805	0.5	
Carc	F1	1.779	1.005		
Cal D	G1	1.262	1.232	1.00	
	H1	1.202	1.232	1.00	
Cal E	A2	0.835	0.798	2.00	
	B2	0.762	0.790	2.00	
Cal F	C2	0.434	0.425	4.00	
Cal F	D2	0.415	0.425	4.00	
Patient	E2	1.214	4 004		
Patient	F2	1.233	1.224	1.06	

The data presented in Example 1 and Figure 1 is for illustration only and **should not** be used in lieu of a standard curve prepared with each assay.

Figure 1



11 Q.C. PARAMETERS

In order for the assay results to be considered valid the following criteria should be met:

- 1. The absorbance (OD) of calibrator 0 ng/ml should be \geq 1.3.
- 2. Four out of six quality control pools should be within the established ranges.

12 RISK ANALYSIS

12.1 Assay Performance

- 1. It is important that the time of reaction in each well is held constant to achieve reproducible results.
- 2. Pipetting of samples should not extend beyond ten (10) minutes to avoid assay drift.
- 3. Highly lipaemic, hemolysed or grossly contaminated specimen(s) should not be used
- 4. If more than one (1) plate is used, it is recommended to repeat the dose response curve.
- 5. The addition of the substrate solution initiates a kinetic reaction, which is terminated by the addition of the stop solution. Therefore the substrate and the stopping solution should be added in the same sequence to eliminate any time deviation during reaction.
- 6. Plate readers measure vertically. Do not touch the bottom of the wells.
- 7. Failure to remove adhering solution adequately in the aspiration or decantation wash step(s) may result in poor replication and spurious results.
- 8. Use components from the same lot. No intermixing of reagents from different batches.
- 9. Accurate and precise pipetting, as well as following the exact time and temperature requirements prescribed are essential. Any deviation from this IFU may yield inaccurate results.
- 10. All applicable national standards, regulations and laws, including, but not limited to, good laboratory procedures, must be strictly followed to ensure compliance and proper device usage.
- 11. It is important to calibrate all the equipment e.g. Pipettes, Readers, Washers and/or the automated instruments used with this device and to perform routine preventive maintenance.
- 12. Risk Analysis as required by CE Mark IVD Directive 98/79/EC for this device, can be requested via email from drg@drg-diagnostics.de.

12.2 Interpretation

- 1. Measurements and interpretation of results must be performed by a skilled individual or trained professional.
- 2. Laboratory results alone are only one aspect for determining patient care and should not be the sole basic for therapy, particularly if the results conflict with other determinants.
- 3. The reagents for DRG ELISA procedures have been formulated to eliminate maximal interference; however, potential interaction between rare serum specimens and test reagents can cause erroneous results. Heterophilic antibodies often cause these interactions and have been known to be problems for all kinds of immunoassays (Boscato LM, Stuart MC. "Heterophilic antibodies: a problem for immunoassays" *Clin. Chem.* 1988:3427-33). For diagnostic purposes, the results from this assay should be used in combination with clinical examination, patient history and all other clinical findings.
- 4. For valid test results, adequate controls and other parameters must be within the listed ranges and assay requirements.
- 5. If test kits are altered, such as by mixing parts of different kits, which could produce false test results, or if results are incorrectly interpreted, DRG shall have no liability.
- 6. If computer controlled data reduction is used to interpret the results of the test, it is imperative that the predicted values for the calibrators fall within 10 % of the assigned concentrations.
- 7. Certain disease states are known to increase a patient's susceptibility to digoxin toxicity. ⁴ The following are examples of such disease states hypokalaemia, hypothyroidism, Renal Failure, and advanced Heart Disease.
- 8. A number of researchers have reported relatively high serum digoxin levels in infants. However, digoxin treatedchildren older than two years of age demonstrate serum digoxin levels more closely resembling adult values.³
- Patients receiving simultaneous quinidine and digoxin therapy should be monitored closely.⁶ Serum digoxin levels
 may rise to greater than twice the stabilized level within 24 hours after initiation of quinidine therapy and may remain
 higher for several days.
- 10. Patients receiving the diuretic furosemide may not display digoxin values that correspond to the clinical picture. ⁶ When furosemide and digitalis preparations are used concurrently, monitoring patients is desirable. ⁷
- 11. Individuals on large doses of biotin supplements should discontinue use one day before blood draw in order to eliminate possible interferences.

13 EXPECTED RANGES OF VALUES

The usual therapeutic range of digoxin in adults is 0.5-2.0 ng/ml.

However, there is an overlap of serum digoxin concentrations in groups of patients with and without clinical toxicity.

A significant number of non-toxic patients have serum concentrations greater than 2.0 ng/ml and a correspondingly significant number of toxic patients have serum values in the range of 1.4-2.0 ng/ml.⁸

Also, patients with supraventricular arrhythmias may require higher doses to control their cardiac rate: these patients' digoxin concentrations range from 2.0-4.0 ng/ml without clinical toxicity.

For these reasons, the physician should make a definite clinical diagnosis after all clinical and laboratory findings have been evaluated.

TABLE 1 – Expected Values for the Digoxin ELISA

Normal Adult 0.5 – 2.0 ng/mL

It is important to keep in mind that establishment of a range of values which can be expected to be found by a given method for a population of "normal"-persons is dependent upon a multiplicity of factors: the specificity of the method, the population tested and the precision of the method in the hand of the analyst. For these reasons each laboratory should depend upon the range of expected values established by the Manufacturer only until an in-house range can be determined by the analysts using the method with a population indigenous to the area in which the laboratory is located.

14 PERFORMANCE CHARACTERISTICS

14.1 Precision

The within and between assay precision of the Digoxin ELISA were determined by analyses on three different levels of pool control sera. The number (N), mean values (X), standard deviation (σ) and coefficient of variation (C.V.) for each of these control sera are presented in Table 2 and Table 3.

TABLE 2

Within Assay Precision (Values in ng/ml)

Sample	N	Х	σ	C.V.
Low	12	0.48	0.04	9.00 %
Normal	12	1.67	0.11	6.60 %
High	12	3.14	0.16	5.00 %

TABLE 3

Between Assay Precision* (Values in ng/ml)

Sample	Ν	Х	σ	C.V.
Low	10	0.51	0.05	9.80 %
Normal	10	1.62	0.13	8.00 %
High	10	3.32	0.22	6.60 %

* As measured in ten experiments in duplicate over a ten day period.

14.2 Sensitivity

The Digoxin ELISA test system has an analytical sensitivity of 0.072 ng/ml.

The sensitivity was ascertained by determining the variability of the '0' calibrator and using the 2σ (95% certainty) statistic to calculate the minimum concentration.

14.3 Accuracy

The Digoxin ELISA test system was compared against a predicate Digoxin method. Biological specimens from a general population were used. The values ranged from 0.5-2.917 ng/ml. The correlation is presented in Table 4.

TABLE 4

Method	Mean (x)	Least Square Regression Analysis	Correlation Coefficient	
DRG	1.249	v_0.070v+0.1294	0.9288	
Reference	1.144	y=0.970x+0.1384	0.9200	

Only slight amounts of bias between this method and the reference method and the reference method are indicated by the closeness of the mean values. The least square regression equation and correlation coefficient also indicates excellent method agreement.

14.4 Specificity

The cross-reactivity of the digoxin antibody to selected substances was evaluated by adding the interfering substance to a serum matrix at various concentrations. The cross-reactivity was calculated by deriving a ratio between doses of interfering substance to dose of digoxin needed to displace the same amount of tracer.

Substance	Cross Reactivity
Digoxin	1.00
Di-Acetyldigoxin	1.00
β-Mehtyldigoxin	1.00
α-Acetyldigoxin	1.00
Digitoxin	0.019
Digitoxigenin	0.017
Lanatoside A	0.016
Ouabain	0.001
Spironolactone	0.001
Prednisone	0.001
Pregnenlone	0.001
Digitoxose	0.001

15 REFERENCES / LITERATURE

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Symbols used

Symbol	English	Deutsch	Italiano	Español	Français	Português
(€	European Conformity	CE-Konformitäts- kennzeichnung	Conformità europea	Conformidad europea	Conformité normes européennes	Conformidade Europeia
Ĩ	Consult instructions for use *	Gebrauchsanweisung beachten *	Consultare le istruzioni per l'uso	Consulte las instrucciones de uso	Consulter les instructions d'utilisation	Consultar as instruções de uso
IVD	In vitro diagnostic medical device *	In-vitro-Diagnostikum *	Diagnostica in vitro	Diagnóstico in vitro	Diagnostic in vitro	Dispositivo médico para diagnóstico in vitro
REF	Catalogue number *	Katalognummer *	No. di Cat.	No de catálogo	Référence	Número de catálogo
LOT	Batch code *	Chargen-bezeichnung *	Lotto no	Número de lote	No. de lot	Código do lote
Σ	Contains sufficient for <n> tests *</n>	Ausreichend für <n> Prüfungen *</n>	Contenuto sufficiente per "n" saggi	Contenido suficiente para <n> ensayos</n>	Contenu suffisant pour "n" tests	Suficiente para <n> determinações</n>
1	Temperature limit *	Temperaturgrenzwerte *	Temperatura di conservazione	Temperatura de conservacion	Temperature de conservation	Limites de temperatura
\sum	Use-by date *	Verwendbar bis *	Data di scadenza	Fecha de caducidad	Date limite d'utilisation	Prazo de validade
A	Manufacturer *	Hersteller *	Fabbricante	Fabricante	Fabricant	Fabricante
	Distributor *	Vertriebspartner *	Distributore	Distribuidor	Distributeur	Distribuidor
\sim	Date of manufacture *	Herstellungsdatum *	Data di produzione	Fecha de fabricación	Date de production	Data de fabricação
8	Biological risks *	Biologische Risiken *	Rischi biologici	Riesgos biológicos	Risques biologiques	Riscos biológicos
Λ	Caution *	Achtung *	Attenzione	Precaución	Attention	Cuidado
UDI	Unique device Identifier *	eindeutige Produktidentifizierung *	Identificativo unico del dispositivo*	Identificación exclusiva del dispositivo *	Identifiant de dispositif unique*	Identificador único do dispositivo *
RUO	For research use only	Nur für Forschungszwecke	Solo a scopo di ricerca	Sólo para uso en investigación	Seulement dans le cadre de recherches	
Content	Content	Inhalt	Contenuto	Contenido	Conditionnement	Conteúdo
Volume/No.	Volume / No.	Volumen/Anzahl	Volume/Quantità	Volumen/Número	Volume/Quantité	Volume / Quantidade