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Certificate of Analysis

Product Name: ELISA Kit for Deoxycholate (DC)

Cat.No.AAA22868 Organism: Pan-species (General)

Lot.No. L221125548

Introduction

Item	Standard	Test Result		
Description	This immunoassay kit allows for the specific mea			
	deoxycholate concentration in serum, plasma, tissue home	Conform		
	lysates, cell culture supernates and other biological fluids.			
Identification	Colorimetric	Positive		
Composition	Pre-coated, ready to use 96-well strip plate	1		
	Standard	2		
	Standard Diluent	1 × 20ml		
	Detection Reagent A (green)	1 × 120μ1		
	Detection Reagent B (red)	1 × 120μ1		
	Assay Diluent A	1 × 12ml	Conform	
	Assay Diluent B	1 × 12ml	Comoni	
	TMB Substrate	1 × 9ml		
	Stop Solution	1 × 6ml		
	Wash Buffer(30 x concentrate)	1 × 20ml		
	Plate sealer for 96 wells	4		
	Instruction manual	1		
Assay Range	say Range 12.35-1,000ng/mL			

Sensitivity

The minimum detectable dose of deoxycholate is typically less than 4.84ng/ml.

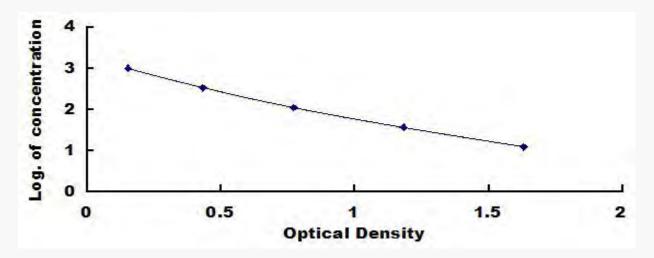
The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D. Value of 20 replicates of the zero standard added by their three standard deviations.

Standard curve

The standard curve is provided for demonstrated only. The client should perform the standard test in each independent experiment.

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ng/ml	Standard		Average	Log of concentration
12.35	1.636	1.628	1.632	1.092
37.04	1.183	1.187	1.185	1.569
111.11	0.769	0.775	0.772	2.046
333.33	0.433	0.429	0.431	2.523
1000	0.147	0.151	0.149	3.000



Recovery

Different matrices were spiked with certain level of deoxycholate and the recovery rates were evaluated.

Matrix	Recovery range (%)	Average(%)	
serum(n=5)	80-102	89	
EDTA plasma(n=5)	79-95	88	
heparin plasma(n=5)	91-104	99	

Linearity

The linearity of the kit was assayed by testing samples spiked with high concentration of deoxycholate and also several dilutions of these samples. The results were demonstrated by the percentage of calculated concentration to the expected.

Sample	1: 2	1: 4	1: 8	1: 16	
serum(n=5)	78-98%	84-92%	86-102%	94-105%	
EDTA plasma(n=5)	88-103%	79-93%	95-109%	80-101%	
heparin plasma(n=5)	81-96%	80-97%	83-93%	86-99%	

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Precision

Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of deoxycholate were tested 20 times on one plate, respectively.

Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of deoxycholate were tested on 3 different plates, 8 replicates in each plate.

	Intra-assay Precision			Inter-assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	24	24	24
Mean (ng/ml)	33.27	116.93	342.15	33.31	117.08	341.86
SD	1.763	6.665	20.871	1.799	6.791	21.195
CV (%)	5.3	5.7	6.1	5.4	5.8	6.2

Approved Date: <u>2022.11.30</u>