Certificate of Analysis

Product Name：ELISA Kit for Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)

Cat.No.AAA20425 Organism: Homo sapiens (Human)

Introduction

Item	Standard		Test Result
Description	This immunoassay kit allows for the specific measurement of CFTR concentration in human tissue homogenates, cell lysates and other biological fluids.		Conform
Identification	Colorimetric		Positive
Composition	Pre-coated, ready to use 96-well strip plate Standard (freeze dried) Standard Diluent Detection Reagent A (green) Detection Reagent B (red) Assay Diluent A Assay Diluent B TMB Substrate Stop Solution Wash Buffer(30 x concentrate) Plate sealer for 96 wells Instruction manual	1 2 1 × 20ml 1× 120µl 1× 120µl 1 × 12ml 1 × 12ml 1 × 9ml 1 ×6ml 1 ×20ml 4 1	Conform
Assay Range	0.156-10ng/mL		Conform

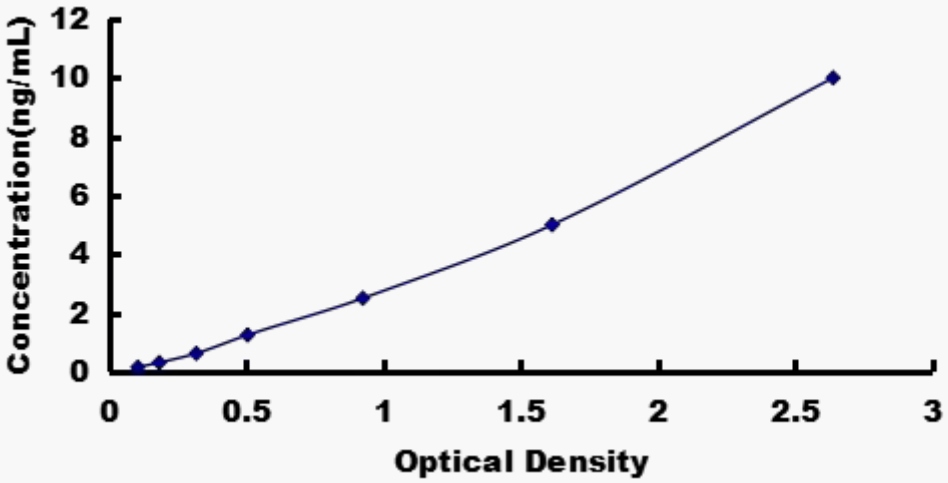
Sensitivity

The minimum detectable dose of human CFTR is typically less than 0.059ng/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.

ng/ml	Standard		Average	Corrected
0	0.087	0.09	0.089	——
0.16	0.194	0.191	0.193	0.104
0.31	0.268	0.274	0.271	0.182
0.63	0.411	0.401	0.406	0.317
1.25	0.585	0.601	0.593	0.504
2.5	1.063	0.962	1.013	0.924
5	1.722	1.684	1.703	1.614
10	2.705	2.748	2.727	2.638



Precision

Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of human CFTR were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of human CFTR 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)	0.42	0.88	3.57	0.41	0.96	4.02
SD	0.031	0.059	0.222	0.031	0.066	0.262
CV (%)	7.4	6.7	6.2	7.6	6.9	6.5