



SALIVARY

Human Total IgG

ELISA KIT

For Research Use Only
Not for use in Diagnostic Procedures

Item No. 1-4502, (Single) 96-Well Kit;
1-4502-5, (5-Pack) 480 Wells



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Intended Use

The Salimetrics® Salivary Human Total IgG ELISA Kit is an enzyme-linked immunoassay specifically designed and validated for the quantitative measurement of human total IgG in oral fluid. It is not intended for diagnostic use. This assay kit was optimized for human salivary research and has not been validated for other human sample types, such as serum or plasma or samples from other species.

Please read the complete kit insert before performing this assay. Failure to follow kit procedure and recommendations for saliva collection and sample handling may result in unreliable values.

For further information about this kit, its application, or the procedures in this insert, please contact the technical service team at Salimetrics or your local sales representative.

Introduction

Immunoglobulin G (IgG) is a key component of the humoral immune system for host immune-defense against pathogenic viruses and microbes. There are four subclasses of IgG (IgG1, IgG2, IgG3 and IgG4). Collectively, total IgG refers to all IgG subclasses, which have varying unique reactivities. In most cases an immune response includes a mixture of all four subclasses and this assay has been designed to detect them all. IgG levels in saliva are generally in the microgram per milliliter range, while in blood they are much higher, in the milligram per milliliter range (1).

High titers of pathogen specific IgG are a measure of protective immunity against pathogens and are generated by an immune response to either a prior infection event or immunization (2). Most IgG in saliva originates from the serum entering into saliva passively through the gingival crevicular epithelium, however some is produced locally in the salivary glands or gingiva (3). Importantly, the reactivity of salivary IgG mirrors that of serum IgG, so oral fluid is an attractive alternative sample to blood for serological studies where antibody levels indicate an individual's immune status to a pathogen of interest (4, 5). As an alternative to blood, oral fluid enables advantages like home collection or when sampling populations where blood draws are a challenge, for instance in small children or the elderly (6).

One important application for the measurement of total IgG in oral fluid is to qualify samples as having sufficient antibody levels to enable valid serological studies (6). In this case, since oral fluid may vary in the amount of antibody present at the time of sampling, to definitively determine if an individual shows negative reactivity, the sample must be tested for total IgG levels to assure there is adequate total antibody present in the test. Cutoff levels may be established to determine if a sample has adequate IgG as well as to help interpret the relative degree of positivity in samples that show reactivity.



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In addition, it has been recently reported that levels of total IgG in oral fluids is highly correlated with proinflammatory cytokine levels, suggesting that, in certain applications, total salivary IgG could be used as a surrogate, and inexpensive marker, to index oral inflammation (7). In this case, total IgG in saliva may be a useful covariate in statistical analyses to control for the confounding effects of poor oral health. This might be very important if the study participants are at high risk for oral health problems.

Test Principle

This is an indirect sandwich ELISA kit. A “sandwich” is formed when the pre-coated capture Anti-Human IgG antibody present on the plate binds IgG in standards & samples, which is then bound by the Anti-Human IgG detection antibody linked to horseradish peroxidase. After each incubation, unbound components are washed away. Bound Anti-Human IgG Antibody Enzyme Conjugate is then added and the levels measured by the reaction of the horseradish peroxidase (HRP) enzyme to the substrate tetramethylbenzidine (TMB). This reaction produces a blue color. A yellow color is formed after stopping the reaction with an acidic solution. The optical density is read on a standard plate reader at 450 nm. The total amount of IgG Antibody Enzyme Conjugate detected is directly proportional to the amount of Total Human IgG present in the sample.



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Safety Precautions

Read Safety Data Sheets before handling reagents.

Hazardous Ingredients

Liquid Stop Solution is caustic; use with care. We recommend the procedures listed below for all kit reagents.

Handling

Follow good laboratory safety practices when handling kit reagents. Personal protective equipment is recommended including laboratory coats, gloves, and safety goggles. Wipe up spills using appropriate absorbent materials while wearing protective clothing. Follow local regulations for disposal.

Emergency Exposure Measures

In case of contact, immediately wash skin or flush eyes with water for 15 minutes. Remove contaminated clothing. If inhaled, remove individual to fresh air. If individual experiences difficulty breathing call a physician.

The above information is believed to be accurate but is not all-inclusive. This information should be used only as a guide. Salimetrics will not be liable for accidents or damage resulting from misuse of product.

Safety Data Sheets are available by contacting Salimetrics at support@salimetrics.com (See www.salimetrics.com for alternative contact options).



General Kit Use Advice

- This kit uses break-apart microtiter strips. You may run less than a full plate. Unused wells must be stored at 2-8°C in the foil pouch with desiccant and used in the frame provided.
- Avoid microbial contamination of opened reagents. Salimetrics recommends using opened reagents within one month. Store all reagents at 2-8°C.
- The quantity of reagent provided with a single kit is sufficient for two partial runs. The volumes of wash buffer and enzyme conjugate prepared for assays using less than a full plate should be scaled down accordingly, keeping the same dilution ratio.
- Do not mix components from different lots of kits.
- We recommend saving all reagents until data analysis has confirmed a successful run to facilitate troubleshooting if necessary.
- Prior to sample addition, please label each strip to assure plate orientation and sample order when data is acquired on plate reader.
- To ensure highest quality assay results, pipetting of samples and reagents must be done as quickly as possible (without interruption) across the plate. Ideally, the process should be completed within 20 minutes or less.
- When using a multichannel pipette to add reagents, always follow the same sequence when adding all reagents so that the incubation time is the same for all wells.
- When running multiple plates, or multiple sets of strips, a standard curve must be run with each individual plate and/or set of strips.
- The temperature of the laboratory may affect assays. Salimetrics' kits have been validated at 68-74°F (20-23.3°C). Higher or lower temperatures may affect OD values.
- Routine calibration of pipettes and other equipment is critical for the best possible assay performance.
- When mixing plates during assay procedures, avoid speeds that spill the contents of the wells.

Storage

All unopened components of this kit are stable at 2-8°C until the kit's expiration date.



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Specimen Collection

Avoid sample collection within 60 minutes after eating a major meal or within 12 hours after consuming alcohol. Acidic or high sugar foods can compromise assay performance by lowering sample pH and influencing bacterial growth. To minimize these factors, rinse mouth thoroughly with water 10 minutes before sample is collected.

Collect whole saliva by unstimulated passive drool. Donors may tilt the head forward, allowing the saliva to pool on the floor of the mouth, and then pass the saliva through the SalivaBio Collection Aid (SCA) into a polypropylene vial. Collection protocols/methods are available online at www.salimetrics.com (<https://salimetrics.com/how-do-i-collect-saliva/>) or upon request.

Record the time and date of specimen collection.

The major source of IgG is serum derived and may therefore be flow rate dependent. However, in the case where total IgG levels are used to normalize or qualify a sample, flow rate is not relevant. If total IgG levels are of interest in themselves, then the impact of flow rate should be determined. It is therefore advisable to collect data on saliva flow in case correction for flow rate should be necessary, or to allow for future testing of archived samples for additional biomarkers that may be sensitive to flow rate. We recommend you measure the amount of time needed to collect the desired volume of saliva, in order to determine the flow rate (mL/min). The measured concentration should then be multiplied by the flow rate in order to express the result as product measured per unit of time. Protocols for flow-rate conversion are available on request.



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Sample Handling and Preparation

After collection, it is important to keep samples cold in order to avoid bacterial growth (and loss of IgG) in the specimen. Refrigerate sample within 30 minutes and freeze at or below -20°C within 4 hours of collection. Samples may be stored at -20°C for up to 6 months. For long term storage, refer to the Salimetrics Collection and Handling Advice Booklet.

Do not add sodium azide to saliva samples as a preservative, as it may cause interference in the immunoassay.

On day of assay, thaw the saliva samples completely, vortex, and centrifuge at 1500 x g for 15 minutes. Freezing saliva samples will precipitate mucins. Centrifuging removes mucins and other particulate matter which may interfere with antibody binding and affect results. Samples should be at room temperature before making dilutions. Pipette clear sample into appropriate dilution tubes. Re-freeze saliva samples as soon as possible after running assay. Re-centrifuge saliva samples each time that they are thawed. Avoid multiple freeze-thaw cycles. IgG levels are minimally affected by freeze-thaw cycles.

Saliva samples must be diluted for this assay. See Procedure for details.



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Materials Supplied with Single Kit

	Item	Quantity/Size
1	IgG ELISA Microtitre Break-Apart Plate Coated with Goat Anti-Human IgG antibodies.	1/96 well
2	IgG Standard 20 ng/mL formulated for stability when stored at 4°C. Prepare and serially dilute before use according to Reagent Preparation. Contains: IgG, buffer, preservative.	1 vial / 2 mL
3	IgG Controls High and Low. Contain: IgG, buffer, preservative.	2 vials / 1 mL each
4	IgG Enzyme Conjugate Concentrate. Dilute before use with IgG Assay Diluent. (See step 7 of Procedure.) Contains: Goat Anti-Human IgG antibody conjugated to HRP, preservative.	1 vial / 100 µL
5	IgG Assay Diluent Contains: phosphate buffer, pH indicator, preservative.	1 bottle / 60 mL
6	Wash Buffer Concentrate 10X Dilute before use according to Reagent Preparation. Contains: phosphate buffer, detergent, preservative.	1 bottle / 100 mL
7	TMB Substrate Solution Non-toxic, ready to use.	1 bottle / 25 mL
8	Stop Solution	1 bottle / 12.5 mL
9	Adhesive Plate Covers	2



Materials Needed But Not Supplied

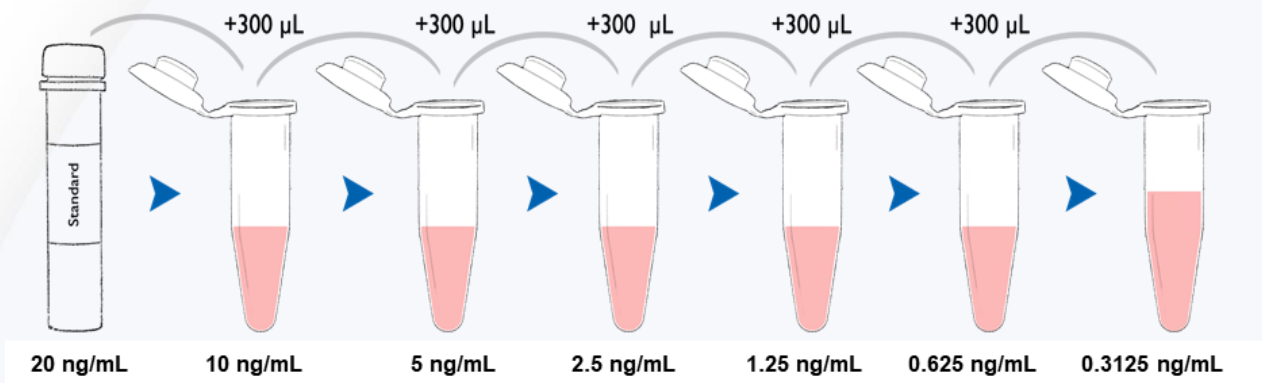
- Precision pipettes to deliver 10 μL , 35 μL , 300 μL , and 490 μL
- Precision multichannel pipette to deliver 50 μL and 100 μL
- Vortex
- Plate rotator with 0.08 - 0.17-inch orbit capable of 500 rpm
- Microplate reader with capabilities to read 450 nm and 620 to 630 nm
- Computer software for data reduction
- Reagent reservoirs
- Deionized water
- One disposable polypropylene tube to hold at least 14 mL
- Small disposable polypropylene tubes for dilution of standard & samples
- Pipette tips
- Serological pipette to deliver up to 14 mL
- Centrifuge capable of 1500 x g



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Reagent Preparation

- Bring all reagents to room temperature and mix before use. A minimum of 1.5 hours is recommended for the 60 mL of Assay Diluent to come to room temperature.
- Bring Microtiter Plate to room temperature before use. ***It is important to keep the foil pouch with the plate strips closed until warmed to room temperature, as humidity may have an effect on the coated wells.***
- Prepare 1X wash buffer by diluting Wash Buffer Concentrate (10X) 10-fold with room-temperature deionized water (100 mL of Wash Buffer Concentrate (10X) to 900 mL of deionized water). ***Dilute only enough for current day's use and discard any leftover reagent.*** (If precipitate has formed in the concentrated wash buffer, it may be heated to 40°C for 15 minutes. Cool to room temperature before use in assay.)
- Prepare serial dilutions of the IgG Standard as follows:
 - Label six polypropylene microcentrifuge tubes or other small tubes 2 through 7.
 - Pipette 300 μ L of IgG Assay Diluent into tubes 2 through 7.
 - Serially dilute the standard 2X by adding 300 μ L of the 20 ng/mL standard (tube 1) to tube 2. Mix well.
 - After changing pipette tips, remove 300 μ L from tube 2 to tube 3. Mix well.
 - Continue for tubes 4, 5, 6 and 7.
 - The final concentrations of standards for tubes 1 through 7 are, respectively, 20 ng/mL, 10 ng/mL, 5 ng/mL, 2.5 ng/mL, 1.25 ng/mL, 0.625 ng/mL and 0.3125 ng/mL.
 - IgG Assay Diluent is used as the Zero Standard.



Procedure

Step 1: Read and prepare reagents according to the Reagent Preparation section before beginning assay. Determine your plate layout. Here is a suggested layout. (Standards, controls, and saliva samples should be assayed in duplicate.)

	1	2	3	4	5	6	7	8	9	10	11	12
A	20 Std	20 Std	Ctrl-L	Ctrl-L								
B	10 Std	10 Std	Ctrl-H	Ctrl-H								
C	5 Std	5 Std	SMP-1	SMP-1								
D	2.5 Std	2.5 Std	SMP-2	SMP-2								
E	1.25 Std	1.25 Std	SMP-3	SMP-3								
F	0.625 Std	0.625 Std	SMP-4	SMP-4								
G	0.3125 Std	0.3125 Std	SMP-5	SMP-5								
H	0 Std	0 Std	SMP-6	SMP-6								

Step 2: Keep the desired number of strips in the strip holder and place the remaining strips back in the foil pouch. Reseal the foil pouch with unused wells and desiccant. Store at 2-8°C.

Step 3: Pipette 14 mL of IgG Assay Diluent into the disposable tube. (Scale down proportionally if using less than the entire plate.) Set aside for Step 7.

Step 4:

- Prepare a 1:50 dilution of the saliva by pipetting 10 µL of saliva into 490 µL of IgG Assay Diluent. Mix well.
- Further dilute by pipetting 10 µL of the 1:50 saliva dilution into 490 µL IgG Assay Diluent (1:50). Final dilution is 1:2,500. Mix Well.

Step 5:

- Pipette 100 µL of IgG Standards, Controls and diluted saliva samples into appropriate wells.
- Pipette 100 µL IgG Assay Diluent into two wells to serve as the Zero Standard.

Place adhesive cover (provided) over plate. Mix plate on a plate rotator **continuously** at 500 rpm for 2 hours at room temperature.



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Step 6: Wash the plate 4 times with 1X wash buffer. A plate washer is recommended. However, washing may be done by gently squirting wash buffer into each well with a squirt bottle, or by pipetting 300 μ L of wash buffer into each well and then discarding the liquid over a sink. After each wash, the plate should be thoroughly blotted on paper towels before turning upright. If using a plate washer, blotting is still recommended after the last wash.

Step 7: Dilute the IgG Enzyme Conjugate 1:400 by adding 35 μ L of the conjugate to the 14mL tube of IgG Assay Diluent. (Scale down proportionally if not using the entire plate.) IgG Enzyme Conjugate tube may be centrifuged for a few minutes to bring the liquid down to the tube bottom. Immediately mix the diluted conjugate solution and add 100 μ L to each well using a multichannel pipette.

Step 8: Place adhesive cover provided over plate. Mix plate on a plate rotator *continuously* at 500 rpm for 2 hours at room temperature.

Step 9: Wash the plate 4 times with 1X wash buffer. A plate washer is recommended. However, washing may be done by gently squirting wash buffer into each well with a squirt bottle, or by pipetting 300 μ L of wash buffer into each well and then discarding the liquid over a sink. After each wash, the plate should be thoroughly blotted on paper towels before turning upright. If using a plate washer, blotting is still recommended after the last wash.

Step 10: Add 100 μ L of TMB Substrate Solution to each well with a multichannel pipette.

Step 11. Incubate the plate in the dark (covered) at room temperature for 30 minutes, mixing for 5 minutes on a plate rotator at 500 rpm.

Step 12: Add 50 μ L of Stop Solution with a multichannel pipette.

Step 13:

- Mix on a plate rotator for 3 minutes at 500 rpm. If green color remains, continue mixing until green color turns to yellow. Be sure all wells have turned yellow.

Caution: Spillage may occur if mixing speed exceeds 600 rpm.

- Wipe off bottom of plate with a water-moistened, lint-free cloth and wipe dry.
- Read in a plate reader at 450 nm. Read plate within 10 minutes of adding Stop Solution. (For best results, a secondary filter correction at 620 to 630 nm is recommended.)



Quality Control

The Salimetrics High and Low IgG Controls should be run with each assay. The control ranges established at Salimetrics are to be used as a guide. Each laboratory should establish its own range. Variations between laboratories may be caused by differences in techniques and instrumentation.

Calculations

1. Compute the average optical density (OD) for all duplicate wells.
2. Plot the reference standard concentrations on the X axis and the corresponding average optical density on the Y axis.
3. Using the average optical density values of the controls and saliva samples, determine the corresponding concentration of Total Human IgG in ng/mL from the standard curve. We recommend using a non-linear regression curve fit.
4. Multiply the calculated concentrations of the **saliva samples only** by the dilution factor of 2,500 to obtain final Total Human IgG sample concentrations in µg/mL.

A new Standard Curve must be run with each full or partial plate.

Typical Results

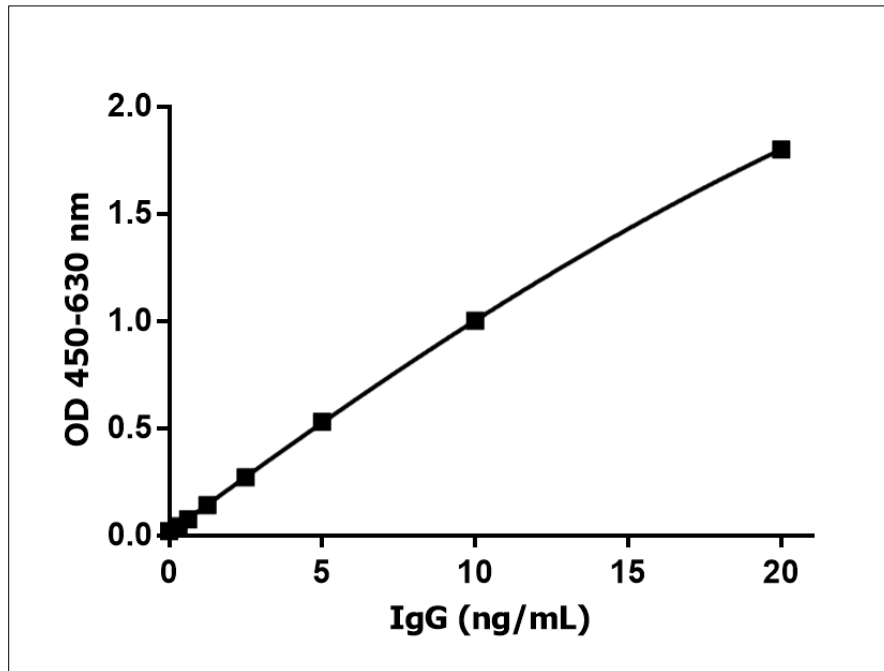
The results shown below are for illustration only and should not be used to calculate results from another assay.

Well	Standard	Average OD	Human IgG (ng/mL)
A1,A2	S1	1.8	20
B1,B2	S2	1.0	10
C1,C2	S3	0.53	5
D1,D2	S4	0.27	2.5
E1,E2	S5	0.14	1.25
F1,F2	S6	0.07	0.625
G1,G2	S7	0.04	0.312
H1,H2	Zero	0.02	0



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Example: Human Total IgG Non-Linear Curve Fit



Limitations

- See “Specimen Collection” recommendations to ensure proper collection of saliva specimens and to avoid interfering substances.
- Samples collected with sodium azide are unsuitable for this assay.
- Any quantitative results indicating abnormal Total IgG levels should be followed by additional testing and evaluation.

Salivary Human Total IgG Performance Characteristics

Precision

The intra-assay precision was determined from the mean of 20 replicates each.

Saliva Sample	N	Mean (µg/mL)	Standard Deviation (µg/mL)	Coefficient of Variation (%)
1	20	10.97	0.31	3%
2	20	9.40	0.27	3%
3	20	5.09	0.22	4%
4	20	1.48	0.12	8%
5	20	0.94	0.08	8%

The inter-assay precision was determined from the mean of average duplicates for 10 separate runs.

Saliva Sample	N	Mean (µg/mL)	Standard Deviation (µg/mL)	Coefficient of Variation (%)
1	20	11.40	0.60	5%
2	20	9.22	0.44	5%
3	20	4.96	0.28	6%
4	20	1.57	0.19	12%
5	20	1.21	0.23	19%

Recovery

Six saliva samples containing different levels of endogenous Human IgG were spiked with known quantities of Human IgG and assayed.

Sample	Endogenous (µg/mL)	Added (µg/mL)	Expected (µg/mL)	Observed (µg/mL)	% Recovery
1	0.81	25.84	26.51	25.23	95%
		6.37	7.04	6.74	96%
		1.31	1.98	1.95	99%
2	7.12	25.84	32.41	31.92	98%
		6.37	12.93	13.04	101%
		1.31	7.87	7.83	99%
3	14.36	-	-	-	-
		6.37	19.28	19.13	99%
		1.31	14.22	13.74	97%

Sensitivity

Analytical Sensitivity

The lower limit of detection (LLOD) was determined by interpolating the mean optical density plus 2 SDs for 10 sets of duplicates at the zero ng/mL standard. The minimal concentration of Total Human IgG that can be distinguished from zero is 0.043 ng/mL.

Functional Sensitivity

The functional sensitivity was determined by assaying 60 saliva samples at a concentration level resulting in a CV less than 20%. The functional sensitivity of the salivary IgG ELISA is 0.94 µg/mL.

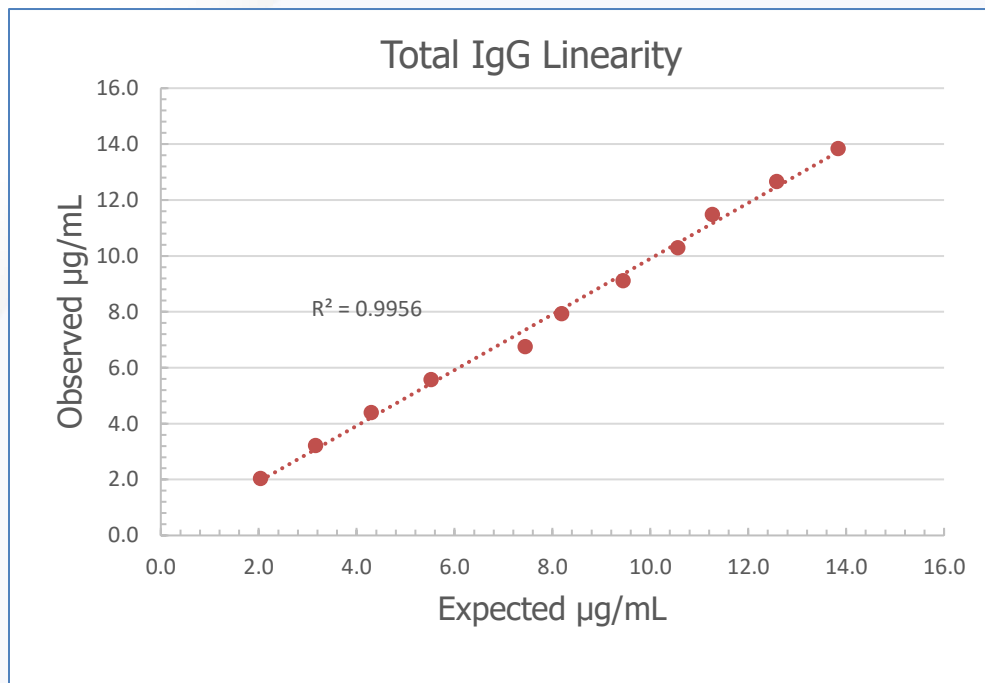


Linearity of Assay

Two saliva samples were diluted with each other proportionately and assayed.

Sample ID	Percentage of Sample		Rep 1 $\mu\text{g/mL}$	Rep 2 $\mu\text{g/mL}$	Mean $\mu\text{g/mL}$	% CV	Expected	% Recovered
	High (L1)	Low (L11)						
L1 (High)	100%	0%	13.99	13.69	13.84	2%	13.84	
L2	90%	10%	12.51	12.66	12.58	1%	12.66	99%
L3	80%	20%	11.36	11.17	11.27	1%	11.48	98%
L4	70%	30%	10.22	10.90	10.56	5%	10.30	103%
L5	60%	40%	9.44	9.44	9.44	0%	9.12	104%
L6	50%	50%	8.19	8.19	8.19	0%	7.94	103%
L7	40%	60%	7.39	7.49	7.44	1%	6.76	110%
L8	30%	70%	5.57	5.47	5.52	1%	5.58	99%
L9	20%	80%	4.31	4.29	4.30	0%	4.40	98%
L10	10%	90%	3.13	3.20	3.16	2%	3.22	98%
L11 (Low)	0%	100%	2.03	2.05	2.04	1%	2.04	

average = 101%



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Antibody Specificity

Compound	Spiked Concentration (pg/ml)	% Cross-reactivity in total IgG ELISA
IgA	4000	ND
IgE	4000	ND
IgM	4000	0.05%

ND = Non-Detected

References

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Seller's Limited Warranty

"Seller warrants that all goods sold hereunder will be free from defects in material and workmanship. Upon prompt notice by Buyer of any claimed defect, which notice must be sent within thirty (30) days from date such defect is first discovered and within three months from the date of shipment, Seller shall, at its option, either repair or replace the product that is proved to Seller's satisfaction to be defective. All claims should be submitted in written form. This warranty does not cover any damage due to accident, misuse, negligence, or abnormal use. Liability, in all cases, will be limited to the purchased cost of the kit.

It is expressly agreed that this limited warranty shall be in lieu of all warranties of fitness and in lieu of the warranty of merchantability. Seller shall not be liable for any incidental or consequential damages that arise out of the installation, use or operation of Seller's product or out of the breach of any express or implied warranties."

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