



417298

5/5/20

Senores:

**Superintendencia de Pensiones**

**Santo Domingo**

**Direccion Av México, Santo Domingo**

**RNC: 401514982**

**Atención Departamento de Compras**

**Telefono: (809) 688-0018**

## COTIZACION

| Cantidad            | Descripcion                           | Precio      | Total         |
|---------------------|---------------------------------------|-------------|---------------|
| 100                 | Kit de prueba rapidas                 | \$ 1,720.00 | \$ 172,000.00 |
|                     | Referencia:<br>SIPEN-DAF-CM-2020-0009 |             |               |
| * Entrega Inmediata |                                       | Sub-total   | \$ 172,000.00 |
|                     |                                       | ITBIS       |               |
|                     |                                       | Total       | \$ 172,000.00 |

**Autorizado**

**Firma-Nombre-Cedula-Fecha**

**Cotizador**

**Firma-Nombre-Cedula-Fecha**

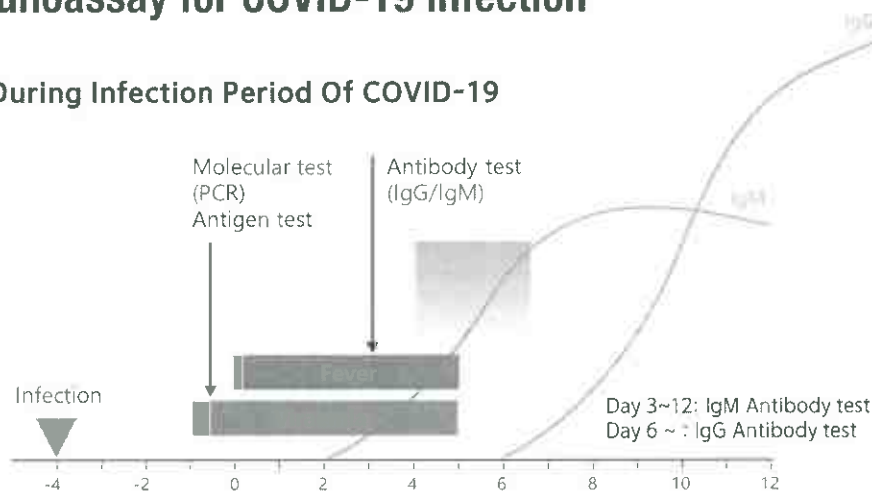


# COVID-19 Quick Immunoassay



## GenBody COVID-19 IgM/IgG test Rapid immunoassay for COVID-19 infection

### Test Methods During Infection Period Of COVID-19



The outbreak of the novel coronavirus (COVID-19) rapidly transmit all over China and lots of countries. Although molecular test (RT-PCR) has become the standard method for diagnosis of this disease, the method has many limitations. In addition, the high false negative rates were reported. There is an urgent need for an accurate and rapid testing method that quickly identify large number of infected patients and asymptomatic carriers to prevent virus transmission and assure timely treatment of patients. GenBody COVID-19 IgM/IgG device is a chromatographic immunoassay kit for the rapid and differential detection of immunoglobulin M (IgM) and immunoglobulin G (IgG) against COVID-19 using serum, plasma and whole blood.

## Comparison With Molecular Testing

|                        | Molecular Testing (RT-PCR)   | GenBody COVID-19 IgM/IgG Rapid Test  |
|------------------------|--|--|
| Principle              | Nucleic acid test of COVID-19  | Antibody (IgM & IgG) detection in the bloods   |
| Accuracy in the fields | -China: 30 ~ 50% (Jungangilbo 2020.02.13)<br>-Depending on the swab positioning of specimen and yield of gene extraction   | -Before Day 5: very low<br>-After Day 5: 50 ~ 81% for IgM, 81 ~ 100% for IgG   |
| Test time              | >6 hours   | 10 minutes   |
| Test cost              | Very expensive   | Economic   |
| Users                  | Skilled & trained  | Normal   |
| Specimen               | Throat, anal, nasopharyngeal, sputum   | Whole blood, serum, plasma   |
| Test capacity          | Limited  | Possible to bulk testing   |
| Adv/disadvantages      | <ul style="list-style-type: none"> <li>• Good accurate at early stage.</li> <li>• Difficult to detect at latent or asymptomatic period.</li> <li>• Appropriate for early stage with limited cases of patients</li> </ul> | <ul style="list-style-type: none"> <li>• Possible to detect at latent or asymptomatic period.</li> <li>• Inaccurate at from Day 0 to Day 5 after infection</li> <li>• Appropriate for 5 day-after with bulk cases of patients</li> </ul> |

## Diagnostic Accuracy of GenBody COVID-19 IgM/IgG

| Parameters             | Performance (Ongoing)   | Comments         |
|------------------------|---|------------------|
| Analytical sensitivity | 1.84 S/CO for IgM<br>1.57 S/CO for IgG  | w. ELISA         |
| Sensitivity            | Day 3 after symptom: IgM- 30%, IgG- 0%<br>After Day 7 from symptom: IgM- 80%, IgG- >95% | w. limited cases |
| Specificity            | IgM 98% (118/120), IgG: 99% (119/120)   |                  |

## Interpretation Method

| Molecular test | Antibody test |          | Interpretation   |
|----------------|---------------|----------|--|
|                | IgM           | IgG      |  |
| Positive       | Negative      | Negative | Acute infection (D1 ~ D3)  |
| Positive       | Positive      | Negative | Acute infection (D3 ~ D8)  |
| Positive       | Positive      | Positive | Infected (D8 ~ D15)  |
| Positive       | Negative      | Positive | Infected (>D15) or secondary infected                                  |
| Negative       | Positive      | Negative | Early stage of infection. Need the additional molecular test           |
| Negative       | Positive      | Positive | Infection (D8 ~ D15), Need the additional molecular test               |
| Negative       | Negative      | Positive | Past infection or<br>(If IgG negative change to IgG positive) infected |
| Negative       | Negative      | Negative | Not infected   |

## Ordering Information

| Cat no. | Product Name             | Package      | Box Size (mm) | Carton Size(mm) |
|---------|--------------------------|--------------|---------------|-----------------|
| COV040  | GenBody COVID-19 IgM/IgG | 20 Tests/Kit | 215x125x75    | 470x410x470     |

| Comprobante |                           |                       |                        |                    |          |        |                          |                 |                                    | Total sin descuentos    | Valor del descuento   | Total ITBIS | Total Otros Impuestos | Total                          |
|-------------|---------------------------|-----------------------|------------------------|--------------------|----------|--------|--------------------------|-----------------|------------------------------------|-------------------------|-----------------------|-------------|-----------------------|--------------------------------|
|             |                           |                       |                        |                    |          |        |                          |                 |                                    | 172.000.000,00          | 0.000000              | 0.000000    | 0.000000              | 172.000.000,00                 |
| Referencia  | Código UNSPSC             | Cuenta presupuestaria | Descripción            | Cantidad requerida | Cantidad | Unidad | Precio unitario estimado | Precio unitario | Importe moneda org. \$/ITBIS Desc. | % descuento moneda org. | Moneda Ganado (Dólar) | % ITBIS     | ITBIS Ganado (Dólar)  | Valor del precio de referencia |
| 1           | 41116295 - FOLIO DE PUNTO | 2.4.2.1.01            | Kms de caminos rurales | 100                | 100      | UM     | 1.720                    | 1.720           | 172.000.000,00                     | 0.000000                | Dólar                 | 0.000000    | 0.000000              | 172.000.000,00                 |