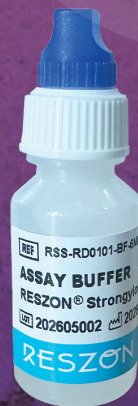


STRONGYLOIDIASIS IgG4 RAPID TEST

A FAST, RELIABLE & AFFORDABLE
Rapid Test to Detect
Strongyloidiasis



ACCURATE
Diagnostic
Performance



RELIABLE
Proven Across
Diverse Settings



SIMPLE
Easy to use



RAPID
Results in
15-25 Minutes



EQUIPMENT-FREE
No Special Equipment
Needed



AFFORDABLE
Ideal for Resource-
Limited Settings

STRONGYLOIDIASIS INFECTION

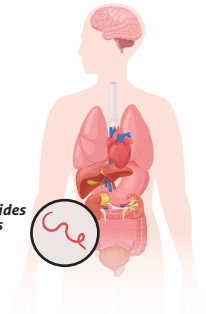
STRONGYLOIDIASIS: A SILENT BUT DEADLY THREAT

Strongyloides stercoralis is a parasite that causes strongyloidiasis worldwide with more than 600 million people in tropical and sub-tropical areas estimated to be infected.¹

It often establishes a chronic, potentially lifelong infection in immunocompetent people, which may progress to hyperinfection syndrome in those who become immunosuppressed.

Early detection of *Strongyloides* infection in at-risk individuals before immunosuppression is crucial for reducing mortality.

Strongyloides stercoralis



STRONGYLOIDIASIS AT A GLANCE

A chronic human parasitic infection mainly caused by *Strongyloides stercoralis*.

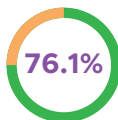


It is a globally prevalent soil-transmitted helminth (STH).

Global Impact
613.9
million people
infected worldwide
(estimated in 2017)¹



Most Affected Regions



of global infections are concentrated in three WHO regions¹



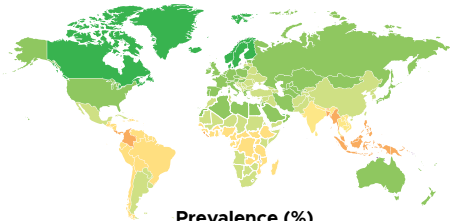
Africa



South-East Asia



Western Pacific



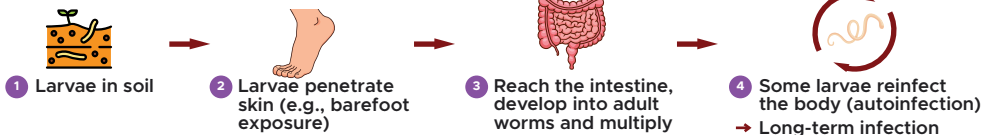
Prevalence (%)

■ 0 ■ >0-5 ■ >5-10 ■ >10-15 ■ >15

Estimated strongyloidiasis prevalence (STG-PR) for 2017, as predicted by the best statistical model¹

HOW THE TRANSMISSION OCCURS?

How Infection Occurs



Key Feature: Autoinfection

The parasite can reinfect the body internally, allowing infection to persist for years—even decades — if untreated.

SYMPTOMS OF STRONGYLOIDIASIS

- Strongyloidiasis may cause intermittent symptoms affecting the gastrointestinal tract (abdominal pain and intermittent or persistent diarrhoea), lungs (cough and wheezing) or skin (pruritus, urticaria, or larva currens).
- Asymptomatic individuals may harbour the parasite for years without knowing they are infected.

SYMPTOMS CAN BE INTERMITTENT AND AFFECT

INTESTINE



- Abdominal pain
- Diarrhoea (on-and-off or persistent)



Symptoms may come and go.

LUNGS

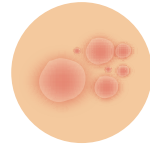


- Cough
- Wheezing



Respiratory symptoms may be mild or recurring.

SKIN



- Itching
- Rashes or hives (urticaria)
- Larva currens



Skin symptoms can flare up at time

HIGH MORTALITY RATE IF UNDIAGNOSED

- Mortality rates in hyperinfection syndrome and disseminated strongyloidiasis can reach almost 90%
- Death often occurs due to delayed diagnosis
- Preventable with early screening & treatment



THE DANGER: HYPERINFECTION & DISSEMINATED INFECTION

When an infected person becomes immunosuppressed, particularly following corticosteroid therapy, larval proliferation may accelerate, leading to rapid progression to:



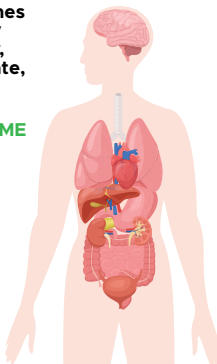
HYPERINFECTION SYNDROME

Massive increase in larval burden within the gastrointestinal tract and lungs



DISSEMINATED STRONGYLOIDIASIS

Larvae spread beyond the gut to multiple organs



Potential complications include:



Larvae invade lungs, liver, brain and other organs



Translocation of enteric bacteria, leading to sepsis



Multi-organ failure



Highly fatal if not diagnosed and treated early^{2,3}

WHO ARE AT HIGHER RISK OF SEVERE DISEASE (HYPERINFECTION/DISSEMINATED STRONGYLOIDIASIS)?

1 IMMUNOSUPPRESSED INDIVIDUALS



Patients infected with human immunodeficiency virus (HIV) or human T-lymphotropic virus type 1 (HTLV-1)



Patients receiving chemotherapy for cancer



Solid organ transplant recipients



Hematopoietic stem cell (bone marrow) transplant recipients



Advanced chronic kidney disease (CKD)



Patients with autoimmune or inflammatory diseases receiving immunosuppressive drugs (e.g. rheumatoid arthritis)



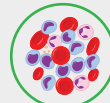
Patients with severe malnutrition or other causes of impaired cellular immunity

2 PATIENTS RECEIVING CORTICOSTEROID THERAPY

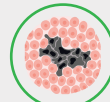


Both short-term and long-term systemic corticosteroid therapy can increase the risk of *Strongyloides* hyperinfection syndrome

3 PATIENTS WITH HAEMATOLOGICAL MALIGNANCIES



Leukemia



Lymphoma and other haematological malignancies

THE CLINICAL DIAGNOSTIC CHALLENGES

Stool microscopy is often used for laboratory diagnosis; however, it is insensitive due to low and intermittent larval output. Concentration and culture techniques can improve the detection but are time consuming, labour intensive and need fresh stool containing live larvae. Serology is thus often used as a diagnostic tool for strongyloidiasis.

STOOL MICROSCOPY

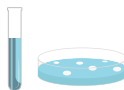


Often used in laboratory diagnosis



Insensitive due to low and intermittent larval output

CONCENTRATION & CULTURE TECHNIQUES



Can improve detection



Time consuming, labour intensive and need fresh stool containing live larvae

SEROLOGY



Often used as a diagnostic tool for strongyloidiasis

STRONGYLOIDIASIS INFECTION

INTRODUCING THE NEW POCT SOLUTION FOR QUALITATIVE DETECTION OF STRONGYLOIDIASIS

RESZON STRONGYLOIDIASIS IgG4 RAPID TEST

MDA Reg. No.: IVDC7526826-233770



RESZON® Strongyloidiasis IgG4 Rapid Test is designed to close the diagnostic gap in the detection of strongyloidiasis. Aligned with the World Health Organization 2021–2030 roadmap for neglected tropical diseases, it fulfills the “**ASSURED**” criteria:

Affordable, Sensitive, Specific, User-friendly, Rapid & Robust, Equipment-free, and Deliverable, making it ideal for screening at-risk populations and use in resource-limited settings.



A

AFFORDABLE



S

SENSITIVE



S

SPECIFIC



U

USER-FRIENDLY



R

RAPID & ROBUST



E

EQUIPMENT-FREE



D

DELIVERABLE

PRODUCT SPECIFICATION



Sensitivity

96.6%



Test time

15 minutes
(serum/plasma)
25 minutes
(whole blood samples)



Sample volume

35 µl



Sample type

Human Whole Blood /
Serum / Plasma



Specificity

91.2%



Storage

2–30°C



Kit

25 tests



Shelf life

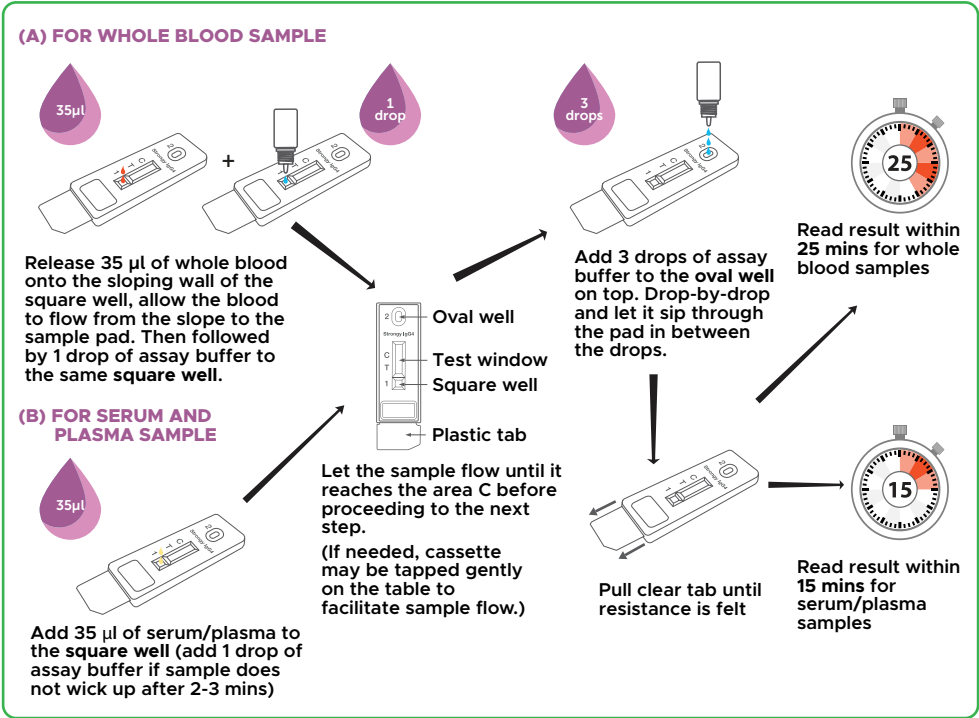
24 months

REAGENTS AND MATERIALS SUPPLIED

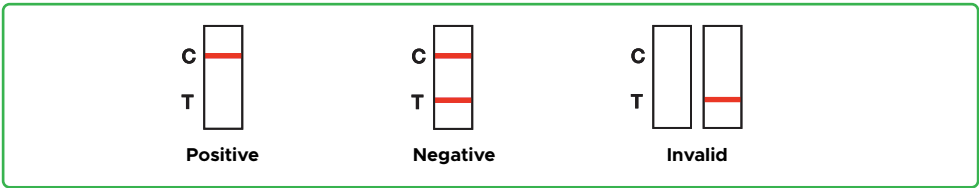
- RESZON® Strongyloidiasis IgG4 Rapid Test Cassette (individually sealed aluminium pouch with a desiccant)
- Assay buffer
- Optional: Disposable dropper, alcohol swab and safety lancet
- Instruction for Use (product insert)

STRONGYLOIDIASIS INFECTION

ASSAY PROCEDURE



RESULT INTERPRETATION



ORDERING INFORMATION

RESZON® STRONGYLOIDIASIS IgG4 RAPID TEST		
Product Code	Description	Packing Size
RSS-RD0101-25	RESZON® Strongyloidiasis IgG4 Rapid Test	25 tests / kit
RSS-RD0101A-25	RESZON® Strongyloidiasis IgG4 Rapid Test (with disposable dropper)	25 tests / kit
RSS-RD0101B-25	RESZON® Strongyloidiasis IgG4 Rapid Test (with disposable dropper, alcohol swab and lancet)	25 tests / kit

WHY CHOOSE RESZON® STRONGYLOIDIASIS IgG4 RAPID TEST KIT?



High Diagnostic Performance for Accurate Detection

- Sensitivity: **96.6%**
supports early detection
- Specificity: **91.2%**
reliable screening results



Proven Performance Across Diverse Settings

- Evaluated across multiple countries (Switzerland, Thailand, Iran, Malaysia) and populations^{2,3,4,5}
- Demonstrates good and consistent performance
- Suitable for diagnosis, screening, and public health programs



Suitable for Clinically Challenging Cases, such as Patients with

- Unexplained eosinophilia
- Chronic gastrointestinal symptoms
- Recurrent or unexplained skin manifestations
- Asthma or respiratory symptoms with eosinophilia
- Unexplained Gram-negative sepsis



Fast Results

- Within 15 minutes (serum/plasma samples)
- Within 25 minutes (whole blood samples)



INTENDED USERS & CLINICAL APPLICATIONS



HOSPITALS & CLINICAL LABORATORIES

routine and pre-immunosuppression screening



PRIMARY CARE & COMMUNITY CLINICS

rapid, on-site clinical decision support



PUBLIC HEALTH & SCREENING PROGRAMS

population-level surveillance and control



MIGRANT, REFUGEE & TRAVEL MEDICINE CLINICS

migrants, refugees, and travellers with endemic exposure



TRANSPLANT & ONCOLOGY CENTRES

risk mitigation before immunosuppressive therapy



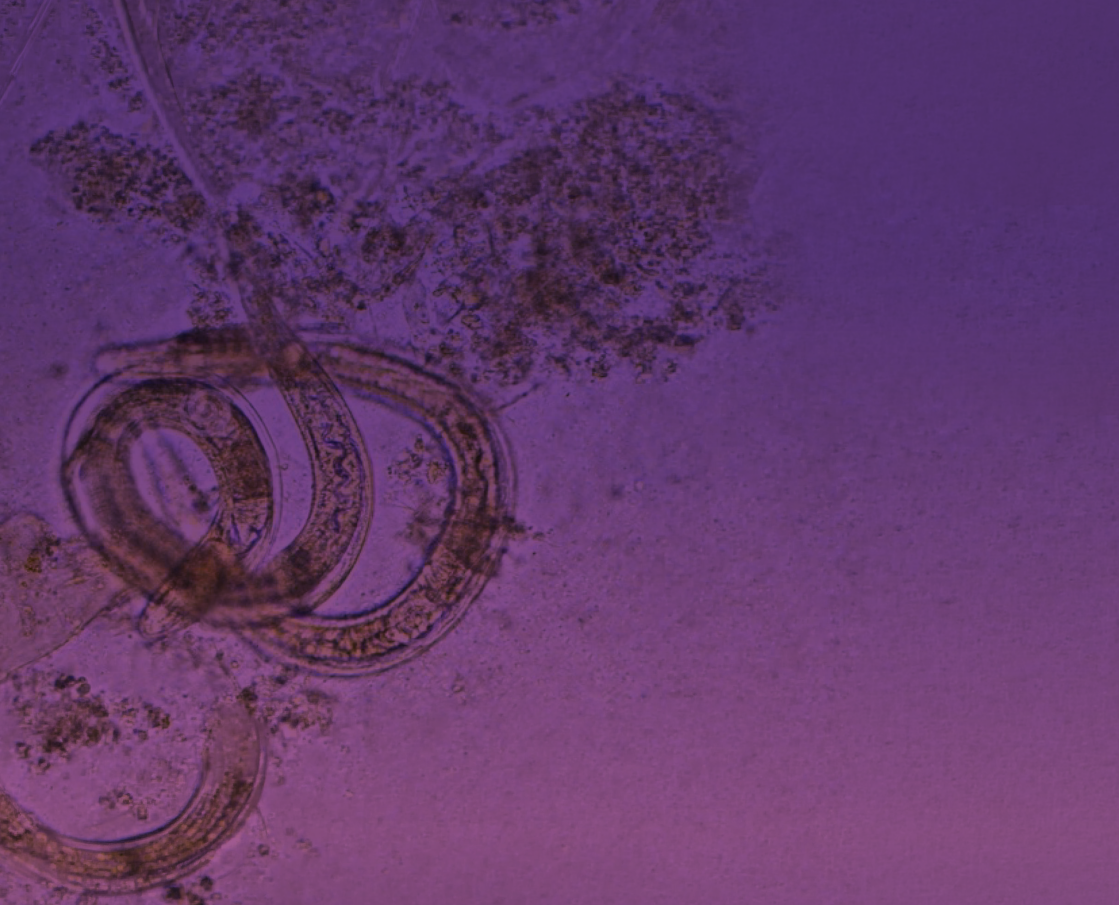
NGOs & OUTREACH TEAMS

field screening in resource-limited settings



RESEARCH & ACADEMIC INSTITUTIONS

epidemiology studies



References:

1. Dora Buonfrate, Bisanzio D, Giorli G, Odermatt P, Fürst T, Greenaway C, French M, Reithinger R, Gobbi F, Montresor A, Bisoffi Z. *The Global Prevalence of Strongyloides stercoralis Infection*. Pathogens. 2020;9(6):468. doi:10.3390 /pathogens9060468.
2. Ashiri, A., Rafiei, A., Noordin, R., Anuar, S.A., Teimoori, A., Ansari-Moghaddam, B., Beirumvand, M., 2025. *Strongyloides stercoralis prevalence and diagnostic efficacy of an IgG4 rapid test in an eosinophilic population in Khuzestan Province, southwestern Iran*. Parasit Vectors 18, 291.
3. Nickel B, Krebs C, Ruf MT, Anuar NS, Noordin R. *An evaluation of a lateral flow rapid diagnostic test for Strongyloides stercoralis infection*. Acta Trop. 2024; 258:107336.
4. Wongphutorn P, Noordin R, Anuar NS, Worasith C, Kopolrat KY, Homwong C, Tippayawat P, Techasen A, Pitaksakurat O, Sithithaworn J, Eamudomkarn C, Sithithaworn P. *Examination of Diagnostic Performance of New IgG4 Rapid Test Compared with IgG- and IgG4-ELISAs to Investigate Epidemiology of Strongyloidiasis in Northeast Thailand*. Am J Trop Med Hyg 2024; 110(2):254-262.
5. Noordin R, Osman, Kalantari N, Anuar NS, Gorgani-Firouzjaee T, Sithithaworn P, Juri NM, Rahumatullah A. *A point-of-care cassette test for detection of Strongyloides stercoralis*. Acta Tropica 2022; 226:106251.
6. Tamarozzi F, Guevara AG, Anselmi M, Vicuña Y, Prandi R, Marquez M, Vivero S, Robinzón Huerlo F, Racines M, Mazzi C, Denwood M, Buonfrate D. *Accuracy, acceptability, and feasibility of diagnostic tests for the screening of Strongyloides stercoralis in the field (ESTRELLA): a cross-sectional study in Ecuador*. Lancet Glob Health. 2023 May;11(5):e740-e748.

Contact us today to enquire: +603 8022 1162 | info@reszonics.com

Reszon Diagnostics International Sdn. Bhd. 201001033978 (917901-W)

A member of Hextar Healthcare Berhad

©2026 Reszon Diagnostics International Sdn. Bhd. All rights reserved. RESZON® is the registered trademark of Reszon Diagnostics International Sdn. Bhd. Doc No: MM-01-03-42-EN; Rev. No.: 01; Effective Date: 2026.07.13

The content of this material is intended for Healthcare Professionals only, not for general public.

www.reszonics.com

Reszon
Diagnostics
INTERNATIONAL

Reszon Diagnostics

