

ZOONOTIC DISEASES

Echinococcosis IgG Rapid Test

Schistosomiasis IgG Rapid Test

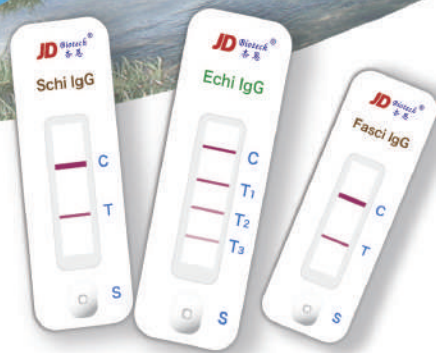
Fascioliasis IgG Rapid Test

New technology to detect zoonotic parasites.

Immune
Colloidal
Gold

> 90%
Accuracy

Results
in
15 mins



Technical Support & Cooperation
National Institute of Parasitic Diseases
Chinese Center For Disease Control And Prevention

SAVE THE DATE

THE 5TH INTERNATIONAL SYMPOSIUM ON
SURVEILLANCE-RESPONSE SYSTEMS LEADING
TO TROPICAL DISEASE ELIMINATION

<http://srs.ipd.org.cn>

15-16 June 2020

Shanghai, China

For more congress information, please contact with
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Contact with Us



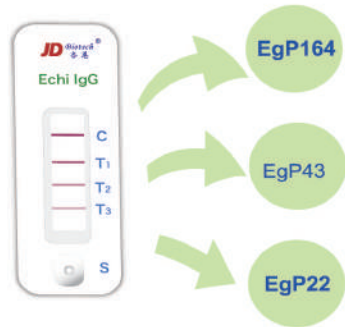
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Echinococcosis IgG Rapid Test

A rapid assay based on the colloid gold immunochromatography detects the presence of specific IgG antibodies in serum or plasma of echinococcosis patients.



Accuracy > 90%

Protein	Sensitivity %	Specificity %
EgP 164	69.50	87.80
EgP 43	95.00	95.70
EgP 22	83.10	93.60
AgB1	69.50	95.70

Rapid Tests	Sensitivity %	Specificity %	Cross reaction to Cysticercosis %
Reagent from JD	70 (101/144)	90 (206/229)	5
Reagent A	66 (95/144)	77 (177/229)	80
Reagent B DIGFA	58 (84/144)	81 (186/229)	80

Fascioliasis IgG Rapid Test

A rapid assay based on the colloid gold immunochromatography detects the presence of specific IgG antibodies in serum or plasma of fascioliasis patients.

Confirmed by Endoscopic ultrasound	Sample size	Fascioliasis IgG Test Colloid Gold method		Sensitivity	Specificity
		Positive (+)	Negative (-)		
True Pos Fascioliasis	29	29	0	100%	100%
True Neg Fascioliasis	30	30	0		

Cross- Reaction Test				
Patient group	Sample size	Positive (+)	Negative (-)	Result: Total 65 samples, (65-2)/65= 96.8%, there is no cross reaction with other zoonotic patients.
Schistosomiasis japonica	15	1	14	
Systicercosis	15	1	14	
Paragonimiasis	15	0	15	
Clonorchiasis	15	0	15	
Opisthorchis felineus	5	0	5	

Schistosomiasis IgG Rapid Test

A rapid assay based on the colloid gold immunochromatography detects the presence of specific IgG antibodies in serum or plasma of schistosomiasis japonica patients.

Sera groups	Reagent from JD	Commercial ELISA Kits	Commercial test strip	Conclusion
Schistosomiasis japonica (>40EPG)	100% (55/55)	92.72% (51/55)	92.72% (51/55)	High sensitivity and specificity
Schistosomiasis japonica (<40EPG)	97.22% (70/72)	88.89% (64/72)	87.50% (63/72)	
Health persons	97.77% (44/45)	95.55% (43/45)	84.44% (38/45)	



Patient group	ELISA		Rapid test (colloid gold)	
	Positive	Negative	Positive	Negative
Fascioliasis patient	14	0	14	0
Schistosomiasis japonica patient	0	20	0	20
Cysticercosis patient	0	20	0	20
Trichinosis patient	0	20	0	20
True Negative	0	376	0	376
Total	14	436	14	436

There was no significant difference in sensitivity and specificity between colloid gold test and ELISA-ELISA test.

This method provides a well-suited for use in low-resource primary healthcare settings.



Evaluation for Cross Reaction				
Sera groups	Positive rate of Reagent from JD, %	Positive rate of commercial ELISA Kits, %	Positive rate of commercial test strip, %	Conclusion
Clonorchiasis	7.14% (1/14)	0 (0/14)	14.29% (2/14)	Low cross reaction rate
Cysticercosis	15.79% (3/19)	0 (0/19)	31.58% (6/19)	
Trichinosis	7.69% (1/13)	7.69% (1/13)	23.08% (3/13)	
Paragonimiasis Westermani	11.11% (1/9)	66.67% (6/9)	100% (9/9)	

Qualitative and quantitative assays are available.