INSTANOSIS
Bringing High Performance Diagnostics to Patient's Side

XpressCheck His Tag rapid test kit

(REF# XC-HIS, Store at Room Temperature, keep dry)

XpressCheck His Tag is a competitive lateral flow assay for rapid detection of His-tagged proteins. It provides results in 3 minutes without instrumentation and works directly with unpurified samples, including cell lysates and culture media. The strip supports both qualitative and semi-quantitative analysis, making it ideal for protein expression screening and optimization. Its detection limit is approximately 0.1 μM (about 5 μg/mL for a 50 kDa protein).

Kit contents

- Test strips (in desiccant tube)
- Xpress buffer
- Instruction card

Result Interpretation

Result	Negative	Positive
Example		
	Both C and T lines are clearly visible and have similar intensity.	T line is significantly weaker than C, or only C line is visible.

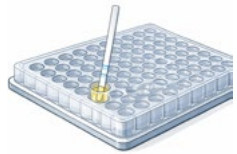
Troubleshooting

Problem	Suggestion
Missing C line	The result is invalid, likely due to insufficient sample volume or high sample viscosity. Increase the sample volume or dilute the sample with water or buffer and repeat the test.
Does not detect old purified His-tagged proteins.	This kit is intended for screening unpurified samples or analyzing freshly purified proteins. Prolonged storage may cause purified His-tagged proteins to degrade or aggregate, potentially masking the His tag and reducing detection.

See reverse side for Application Instructions

Application Example 1: *Rapidly assessing secreted recombinant protein expression in medium*

Transfer 100µL medium to a well and place a test strip in the well.
(Dilute the sample with water or buffer if necessary)



→ Read result after 3 minutes

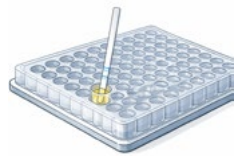
Application Example 2: *Rapidly assessing recombinant protein expression in E. coli lysate*

E.Coli pellet from
1 mL culture

→

Lyse cells with 100µL
Xpress buffer

→



Transfer to a well and place a
test strip in the well

→ Read result after 3 minutes

Application Example 3: *Evaluation of recombinant protein expression in soluble VS inclusion body fractions*

E.Coli pellet from
1 mL culture

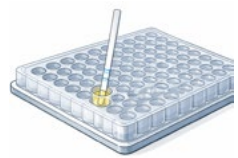
→

Lyse cells following
user's protocol

↗

Soluble
fraction

→



Transfer to a well and place a
test strip in the well

→ Read result after 3 minutes

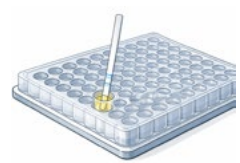
↘

Insoluble
fraction

→

Lyse cells with 100µL
Xpress buffer

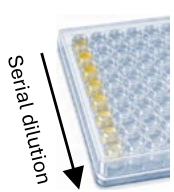
→



Transfer to a well and place a
test strip in the well

→ Read result after 3 minutes

Application Example 4: Semi-quantitative measurement of His-tagged protein concentration

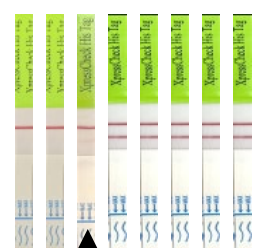


Prepare serial
diluted samples

→

Place a test strip
in each well

→ Read result
after 3 minutes



The highest dilution that still produced a positive result corresponded to approximately 0.1 µM