

## **37ExpressVue™ Rapid Test**

### **Frequently Asked Questions**

#### **Ordering**

##### **1. How can I place an order?**

Orders may be placed in several convenient ways:

- A.** Online ([store.qoolabs.com](https://store.qoolabs.com)): This is the most convenient and fastest way to place an order. Before you place an order for the first time, you will need to register for an account with contact info, billing and shipping addresses. You will be able to view details of your order history, track an order and pay invoices when you log in to your account. All pages on our web store site are secured via https.
- B.** Email: send email to [sales@qoolabs.com](mailto:sales@qoolabs.com). When sending an email, please include your contact info, billing and shipping addresses, and the items you would like to order. A representative will contact you to get the payment info. Please **DO NOT** send credit card info in the email.
- C.** Phone order: Call (858) 348-0988 during the hours of 9 am to 5pm (PST), Monday through Friday.

##### **2. What kind of payments do you accept?**

We accept credit cards (Visa, MasterCard, and American Express) and PAYPAL, checks and wire transfers. You may also send us a valid PO.

##### **3. What shipping method do you use and how much does it cost?**

We ship via UPS 2<sup>nd</sup> Day Air with a flat rate of \$19.95. If you need to receive your orders sooner, please contact us for Express Shipment (extra shipping charge will be added).

#### **Products**

##### **37ExpressVue™ Rapid Tests**

##### **1. What kind of expression system can 37ExpressVue™ rapid test be used in?**

It has been tested in bacterial, yeast, insect cell and mammalian cell expression systems.

##### **2. Do I need to process my sample before using the 37ExpressVue™ rapid test?**

If your samples are already in native neutral pH buffers, you don't need to process your samples for the 37ExpressVue™ rapid tests. The test strips may be dipped directly into a fraction of your sample. However, when the protein concentration is unknown, it may be necessary to test several dilutions (such as 1:10 or 1:100) of your original culture or lysate to get the best results.

##### **3. What is a hook effect?**

When samples contain high concentrations of the fusion protein, the signal of both test line and control line will decrease.

##### **3. Is the 37ExpressVue™ rapid test quantitative?**

The 37ExpressVue™ rapid test is a qualitative test when viewed with naked eyes. However, the intensity of the test lines correlate with the concentrations of the fusion protein. It is possible to quantitate the results with a lateral flow test strip reader.

**4. What is the concentration range of protein that the 37ExpressVue™ rapid test can measure?**

Each tag detection has a different detection range, and may vary under different buffer conditions. When tested in optimal conditions (PBS pH 7.4), tests for all protein tags have low detection limits (LOD) of 10ng/ml or lower; Tests for epitope tags have LOD at about 100ng/ml. Please consult the instruction of each product for details.

**5. What kind of chemical is the 37ExpressVue™ rapid test compatible with?**

Our strip test can tolerate up to 1M NaCl, 1 M urea, pH 7.0 -9.0 of 100 nM buffer strength or pH 2-9 of 10 nM buffer strength, 1% TritonX100, 0.05% SDS, 1% chaps, 1% sarkosyl, 10% BSA, 10% FBS, 5 mM EDTA. Please refer to the technotes for more details. Reduced sensitivity may be observed in extreme conditions. It is also recommended to test each condition with a positive control.

**6. How does the 37ExpressVue™ rapid test result compare to other traditional protein assay methods?**

37ExpressVue™ rapid tests are generally more sensitive than SDS-PAGE and Western Blotting. Please refer to our technotes for more details. However, the rapid test takes much less time and does not require skilled handling.

**7. What is the specificity of the 37ExpressVue™ rapid test?**

37ExpressVue™ rapid tests are highly specific, most of them are made with double antibody recognition to the protein epitope tags. For Fc fusion proteins, the hFc tests doesn't cross react with rFc or mFc at concentration of 100 ng/ml. Please refer to our technotes for more details. The His tag rapid test is based on a competition immunoassay, which is also highly specific – only histidine tags with 6 or more Histinine will compete the antigen-antibody binding.

**8. How do I know if the test is performing correctly?**

Positive controls for each test are available at known concentrations and are ready to use.

**9. How do I know the detection limit of the test in my system?**

You may dilute the positive controls in your buffer system to get a more accurate detection limit of your protein.