

Gliadin Allergen Rapid Test Kit

Cat no. LDG0003LR





Gluten, a storage protein in wheat, rye, barley, and oats, is a common food allergen, with gliadin being the primary trigger for immune reactions in gluten-related disorders, which affect approximately 1-6% of the global population. The mainstay of treatment is adherence to a gluten-free diet, which is also being adopted by some with chronic diseases due to gluten's pro-inflammatory properties. This increasing awareness has heightened demand for gluten detection tests, especially considering the varying international gluten-free labeling standards (e.g., <20 ppm in the US, EU, UK, and Canada versus no detection levels in Australia and New Zealand).

The Gliadin Allergen Rapid Test Kit is based on the sandwich lateral flow immunoassay (LFIA) principle and is specifically designed to detect gliadin. This method uses highly specific antibodies to capture and visualize the gliadin, providing rapid, equipment-free results. A potential limitation of sandwich immunoassays is the hook effect (also known as the prozone effect), which may lead to false-negative or underestimated results at very high analyte concentrations due to antibody saturation. However, this Gliadin Allergen Rapid Test Kit incorporates a H line (hook line) to eliminate the interference of the hook effect, ensuring accurate detection even at high gliadin levels.



Componen	Quantity	
Gliadin Lateral Flow Device		10 pcs
Prefilled Extraction Tube with Dropper Tip and Scoop (2 mL Extraction Buffer/bottle)		10 bottles
Single-use Dropper		10 pcs
Single-use Sampling Swab		10 pcs
Instruction Manual		1

Sample Requirements and Dilution Conditions



Sample Type	Dilution Requirements		
Solid Samples	Take a spoonful of sample and immerse it in Extraction Buffer for lysis		
Liquid Samples	Add 20 drops of sample to the Extraction Buffer (sample to buffer ratio of 1 to 5)		
Environmental Swab Samples	Collect a surface sample from a 10×10 cm area using a swab and immerse the swab in Extraction Buffer for lysis		



To prevent accidental ingestion of Extraction Buffer, first transfer the sample to a separate container for testing. Do not consume the sample after testing.

For Environmental Swab Samples, please clean the sampled area with water and alcohol after collection.

Materials Required but Not Provided



Timers



The Gliadin Allergen Rapid Test Kit has a minimum detection limit for gliadin of approximately 10 ng/mL (10 ppb).





Test kits should be stored at room temperature.

Test devices must remain in the sealed foil pouch until use, as they are sensitive to humidity.

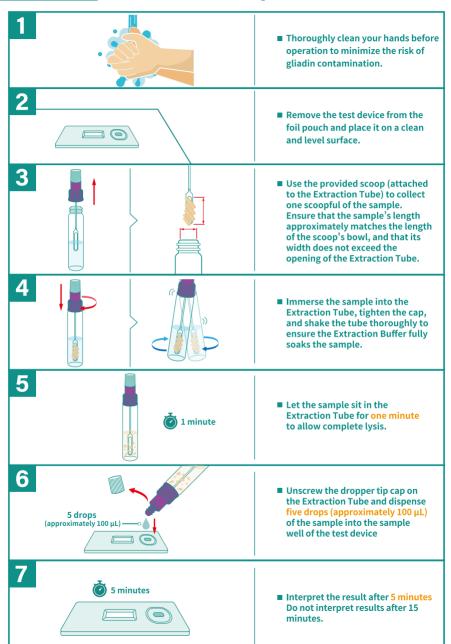
Test kits are for single use only and should not be reused.

Do not use the kit if the package is damaged, or the physical appearance is altered.

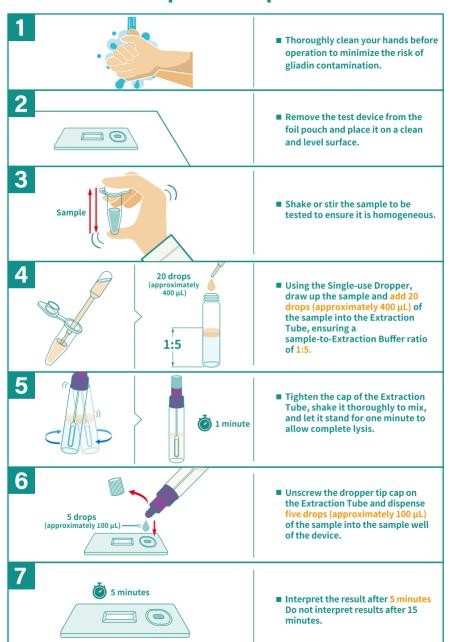


Protocol

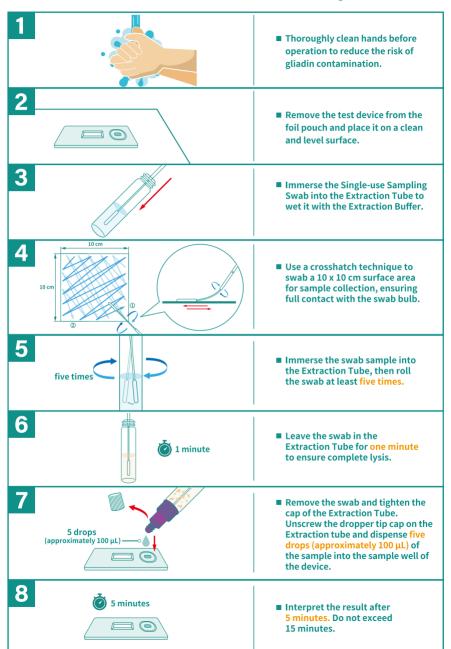
Solid Samples



Liquid Samples



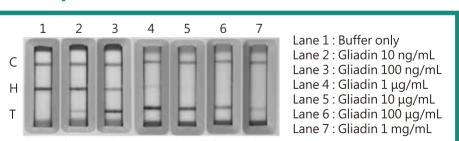
Environmental Swab Samples



Result Interpretation

	Result	Result Window	Result Interpretation
↑ Toward the Top	Negative	C H	A negative result is indicated when the T line (T) is absent and only the C line (C) and H line (H) are visible.
	Positive		The appearance of the T line (T) together with the C line (C)
	High Positive	C C C H H T	and H line (H) indicates a positive result.
	Very High Positive	C C C H T T	Disappearance of the H line (H), or both the H line (H) and the T line (T), may indicate an excessive amount of allergen protein in the sample.
	Invalid		No colored line in the Control region (C) indicates an invalid test.

Example



The example presented herein are intended solely for qualitative demonstration purposes. This product is not designed for quantitative analysis and should not be used to determine the exact concentration of any analyte.

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