

Allergen Assay Comparison Chart



Product	Hygiena® Gluten Assays									3M™ Allergen Protein Rapid Kits (Gluten)	Neogen® Reveal® 3-D for Gluten	Romer Labs® AgraStrip®	R-Biopharm® RIDA® Quick
	GlutenTox® Pro	GlutenTox® Pro Surface	GlutenTox® Pro Surface Fast	GlutenTox® Home	GlutenTox® Sticks Plus	GlutenTox® Sticks Plus for Cube	GlutenTox® ELISA Competitive G12	GlutenTox® ELISA Rapid G12	AllerFlow Gluten				
Instrument Needed to Read Strips	No	No	No	No	No	Yes	N/A*	N/A*	No	No	No	No	N/A*
Limit of Detection	Adjustable LODs† at 5, 10, 20, 40 ppm	40 ng/cm²	10 ppm	Adjustable LODs† at 5, 20 ppm	3 ppm	3 ppm	1.6 ppm 2.5 – 100 ppm (ROQ‡)	0.4 ppm 1.2 – 200 ppm (ROQ‡)	5 ppm	5 ppm	5 – 10 ppm	5, 10, or 20 ppm	Approx. 6.3 mg/kg gluten
Antibody	G12/A1	G12/A1	G12/A1	G12/A1	G12/A1	G12/A1	G12	G12/A1	G12/A1	Other	Other	G12	R5
Time to Result	10 – 20 Minutes	<15 Minutes	<15 Minutes	10 – 20 Minutes	<60 Minutes	60 – 90 Minutes	90 Minutes	90 Minutes	10 Minutes	11 Minutes	5 Minutes	11 Minutes	10 – 120 Minutes
Extra Equipment Required	No	No	No	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
Type of Test	Lateral Flow	Lateral Flow	Lateral Flow	Lateral Flow	Lateral Flow	Lateral Flow	ELISA	ELISA	Lateral Flow/ Swab	Lateral Flow	Lateral Flow	Lateral Flow	Lateral Flow
Quantitative, Semi-Quantitative, or Qualitative	Semi-Quantitative	Qualitative	Qualitative	Semi-Quantitative	Semi-Quantitative	Quantitative	Quantitative	Quantitative	Qualitative	Qualitative	Qualitative	Qualitative	Qualitative
Highly Specific & Sensitive	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Valid for Wide Range of Samples or Food Matrices	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Detects Both Processed & Unprocessed Allergens	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
Adjustable Sensitivity	Yes	No	No	Yes	Yes	No	Yes	Yes	No	No	No	Yes	No
AOAC-Certified	Yes	No	No	No	No	No	No	Yes	No	Yes	No	Yes	Yes
Test Type	Product & Surface	Surface	Surface	Product	Product & Surface	Product	Product	Product & Surface	Surface	Product & Surface	Product & Surface	Product & Surface	Products & Surface

* N/A = not applicable † LOD = limit of detection ‡ ROQ = range of quantification

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Product	Qualitative Allergen Assays					Quantitative Allergen Assays				
	Hygiena AlerTox® Sticks	Hygiena AllerSnap®	3M Allergen Protein Rapid Kits	Neogen Reveal 3-D Allergen Tests	Romer Labs AgraStrip Allergens	Hygiena AlerTox® ELISA	3M Allergen Protein ELISA Kit	Neogen Veratox® ELISA	Romer Labs AgraQuant® ELISA	R-Biopharm RidaScreen® ELISA
Instrument Needed to Read Strips	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Limit of Detection	Varies depending on allergen	3 ppm	0.5 – 5 ppm	5 – 10 ppm	0.5 – 10 ppm	Varies depending on allergen	0.3 – 2 ppm	0.6 – 25.00 ppm	0.5 – 40 ppm	0.3 – 2.5 ppm
Time to Result	10 Minutes	15 – 30 Minutes	11 Minutes	5 Minutes	11 Minutes	60 Minutes	115 Minutes	30 Minutes	60 Minutes	60 Minutes
Extra Equipment Required	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Type of Test	Lateral Flow	Swab	Lateral Flow	Lateral Flow	Lateral Flow	ELISA	ELISA	ELISA	ELISA	ELISA
Ease of Use	Easy	Easy	Easy	Easy	Medium	Medium	Difficult	Difficult	Difficult	Difficult
Highly Specific and Sensitive	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Valid for Wide Range of Samples or Food Matrices	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Detects Both Processed & Unprocessed Allergen Proteins	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable Sensitivity	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
AOAC-Certified	No	No	No	No	No	No	No	Yes	Yes	Yes
Test Type	Product & Surface	Surface	Product & Surface	Surface	Product & Surface	Product & Surface	Product & Surface	Product & Surface	Product & Surface	Product & Surface

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