



RIDA®QUICK Zearalenon RQS

Art. No. R5504

- **Reliable**
Extensively tested on naturally contaminated matrices
- **Sensitive**
Quantitative determination with
RIDA®QUICK SCAN (RQS)
75 ppb - 500 ppb
- **Rapid**
Assay results within 5 min
- **Simple**
Test can be performed immediately
in combination with RIDA®QUICK SCAN
(Art.No. ZG 5005-0)



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Immunochromatographic test for the detection of Zearalenone in corn.

The mycotoxin zearalenone is formed by fungi of the genus *Fusarium*. Zearalenone is a phytohormone which displays, apart from its anabolic properties, mainly estrogenic effects. Because of its estrogenic properties, zearalenone may induce fertility disorders in animals with clinical signs of hyperestrogenism - an aspect of a disease which is although reported mainly in hogs. It is described in other species such as cow, horse and sheep, too. The potential health risk for man induced by this mycotoxin, which is taken up with foods of vegetable or animal origin, is extensively discussed.

The RIDA®QUICK Zearalenon RQS test allows a quantitative detection of Zearalenon in corn rapidly and reliable in combination with RIDA®QUICK SCAN.

Specifications

- **Format:**
20 single packed dip sticks
- **Sample preparation:**
homogenization, extraction
- **Incubation time:**
5 min
- **Limit of detection (LOD):**
approx. 75 ppb Zearalenon
- **Detection range:**
75 ppb - 500 ppb



- Effective extraction
- Digital evaluation
- Results in 10 min






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Test procedure


Method: ZeaQuant or Zea 75 - 500 ppb

- 1




Grind the sample, mix thoroughly and weigh 10 g into a screwable tube

- 2



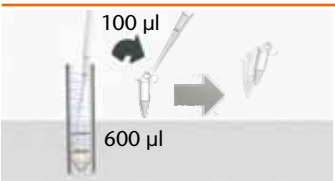
10 g ground sample + 20 ml 70 % methanol
Perform the entire process at room temperature
Close the tube and shake vigorously for 5 min

- 3




Let the solution come to sedimentation or centrifuge
Close the tube to avoid methanol evaporation

- 4




Add 100 µl of the clear supernatant to 600 µl mobile solvent and mix it

- 5




Pipette 100 µl onto the application area of the test strip

- 6



Incubate the test for exactly 5 min.

- 7



Put the strip into the test strip insert and start the measurement

- 8

◀ 19°C Result ▶

ZeaQuant 75-500 ppb

95 ppb

01.02.12 B 17:15:20

▲ ▼ Print Next ←

◀ 19°C Result ▶

Zea 75-500 ppb

95 ppb

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Read and /or print the result



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Validation Data I

Lot #12351

Sample*	RQS result ppb Lot 14471		Mean E1 [ppb]	Mean E2 [ppb]	Mean E1 + E2 [ppb]	VK [%]	HPLC* result [ppb]
	Extract 1	Extract 2					
Z-300 corn	<75	<75	-	-	-	-	0
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
Z-310 corn	<75	<75	-	-	-	-	59.4
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
Z-311 corn	79	75	79	77	78	3.61	88
	81	75					
	77	83					
	79	79					
	75	75					
	81	76					
Z-317 corn	84	94	90	95	92	5.07	105.5
	96	101					
	87	96					
	87	92					
	92	91					
	93	95					
Z-316 corn	213	215	221	214	217	6.35	258.5
	230	213					
	240	199					
	230	231					
	193	214					
	222	209					

* Trilogy® Mycotoxin Reference Materials



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Validation Data II

Lot # 13511

Sample*	RQS result ppb Lot 14471		Mean E1 [ppb]	Mean E2 [ppb]	Mean E1 + E2 [ppb]	VK [%]	HPLC* result [ppb]
	Extract 1	Extract 2					
Z-300 corn	<75	<75	-	-	-	-	0
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
Z-310 corn	<75	<75	-	-	-	-	59.4
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
Z-311 corn	79	75	80	77	78	3.33	88
	81	78					
	77	78					
	79	80					
	83	75					
	81	75					
Z-317 corn	108	108	104	105	105	4.49	105.5
	99	111					
	99	101					
	106	97					
	103	106					
	109	109					
Z-316 corn	208	203	224	206	215	10.17	258.5
	247	202					
	225	208					
	228	192					
	255	203					
	181	226					

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Validation Data III

Lot # 13511

Sample*	RQS result ppb Lot 14471		Mean E1 [ppb]	Mean E2 [ppb]	Mean E1 + E2 [ppb]	VK [%]	HPLC* result [ppb]
	Extract 1	Extract 2					
Z-300 corn	<75	<75	-	-	-	-	0
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
Z-310 corn	<75	<75	-	-	-	-	59.4
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
	<75	<75					
Z-311 corn	91	85	88	77	82	10.32	88
	84	75					
	91	75					
	86	75					
	100	75					
	75	76					
Z-317 corn	110	103	105	114	109	7.09	105.5
	106	108					
	108	113					
	99	117					
	97	124					
	109	117					
Z-316 corn	238	233	247	224	236	10.85	258.5
	248	170					
	245	256					
	265	236					
	221	220					
	265	230					

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