QUINOA

for celiacs.

1 8	Before reading th	e text, match t	these words with their definitions.
1 6	 a. Side-dish b. Celiac disease c. Labelled d. Reading e. Cultivars f. Cross-contamination g. Facilities h. Concern h. Storage 	2. 3. 4. 5. 6. 7. 8. 9.	A measurement indicated by a gauge, dial, scientific instrument, etc. A variety of a plant that was produced from a natural species and is maintained by cultivation. A dish served as an accompaniment to the main course. Medical condition in which the absorptive surface of the small intestine is damaged by a substance called gluten. A feeling of worry. Described or classified in a word or phrase. Direct or indirect transfer of bacteria, microorganisms or harmful substances. Building or equipment used for a specific purpose. To imitate.
J	• To mimic	10.	The act of setting aside or accumulating for future use.
(s quinoa really "gluten Quinoa is not a grain like nstead, this seed is actua	free"? wheat, rye or bally a closer relat	arley, therefore, by definition, it does not contain gluten. tive of spinach, amaranth and rhubarb, and is a commonly ifically grown in the Andes, where it has been grown
((1)	over 5,000 ر	years.
\ 6	wheat, rye or barley; in fa acids and include all the protein content, contains	ct, the proteins essential amino a number of m	(2)
((4)	are a critica	al part of the diet of people with celiac.
7	The gluten protein in gra proteins, and these prote	ins is a complex ins differ betwe	x mixture of (5)
ã	adaptive immune system	, which results i	stem, and some of (6) activate the in celiac disease. Diagnostic tests estimate the amount of all therefore a product can be labelled as "gluten-free" only if it
٦	Fechnically speaking, qui	noa is gluten fre	million of gluten. ee: tests show that it typically gives a very low reading for nay not always accurately predict the safety of a food produc

A research study, investigating the immune properties of 15 different cultivars of quinoa, confirmed the lack of gluten, but (8) that two varieties had unexpectedly high levels of

immune reactivity on celiac disease cells, comparable to the levels found in wheat.

as the proces concern is all wheat.	ssir oou	ng of quinoa is often perfo It gluten-like storage prot	orm tein	ned in facilities that also pro s present in quinoa, which	car	ss other grains – the major n mimic proteins found in
The obvious	qu	estion is: are these storag	e p	roteins sufficiently similar t	o tı	raditional glutens
		•		use an immune reaction in rding to new research, unfo		
1.	a.	from	b.	for	c.	since
2.	a.	allows	b.	does	c.	makes
3.	a.	lacking	b.	lacked	c.	lacks
4.	a.	that	b.	who	c.	whom
5.	a.	above	b.	below	c.	over
6.	a.	this	b.	them	c.	their
7.	a.	per	b.	for	c.	by
8.	a.	finded	b.	find	c.	found
9.	a.	Therefore	b.	However	c.	Nevertheless
10.	a.	what	b.	which	c.	that

3 Read the text again and say if these sentences are true or false. Correct the false ones.

		Т
a.	Quinoa is a grain like barley.	
b.	Quinoa contains gluten.	
c.	Andine people have used quinoa for centuries.	
d.	Compared to wheat, quinoa's nutrients are poorer.	
e.	Proteins, minerals and B-vitamin are present in quinoa.	
f.	A diet for celiacs is poor in fibre, folic acid and minerals.	
g.	A "gluten-free" product contains less than 20 parts per million of gluten.	
h.	Tests for gluten always predict the safety of a food product for celiac disease.	
i.	There are some gluten-like storage proteins in quinoa.	

4 Answer the following questions without looking at the text.

- **a.** Why does quinoa contain no gluten?
- **b.** In which area of South America is it specifically grown?
- **c.** Why can quinoa substitute wheat, rye or barley?
- d. Compared to other gluten-free foods what nutrients is quinoa rich in?
- **e.** When are small peptide fragments created?
- **f.** When is a product labelled as "gluten-free"?
- **g.** Can tests for gluten guarantee the safety of a food product for celiacs?
- **h.** Are these storage proteins dangerous?

