

CellTolerance® Test Quick Guide



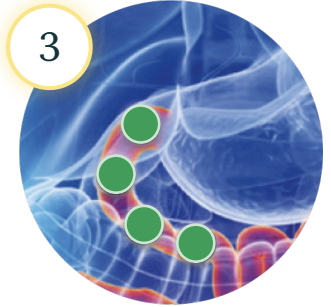
Perform a standard gastroscopy to observe any sign(s) of abnormal mucosal structures that may explain the symptoms.

If abnormality observed, the endoscopic procedure may **not be applicable**.



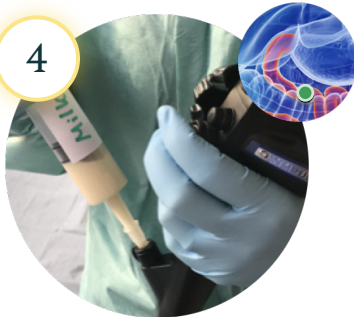
Inject contrast agent intravenously, consistent with drug label. Position the endoscope in the duodenum and **insert the probe** into the operating channel of the endoscope.

→ The use of a dual channel endoscope is recommended.



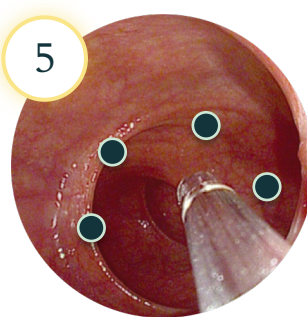
Perform CellTolerance® imaging on the duodenum at a minimum of **4 sites during 20 seconds** to verify mucosal integrity and to establish a baseline.

If the mucosa shows a **positive** reaction then **no food challenge** will be possible.



Remove the probe, **apply** one of the food preparations to the duodenum mucosa and **wait for 2 minutes** before starting imaging.

→ Start in the distal portion and with the food preparation that is less likely to trigger a reaction.



Start imaging and carefully **observe** the mucosal surface in contact with the food preparation, at a minimum of **4 sites during 20 seconds**. Mucosal reaction is considered positive when 2 sites or more have a positive reaction.

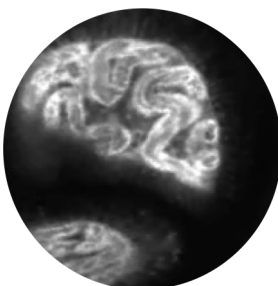
If the mucosal reaction is **positive, conclude** the test.



If the mucosal reaction is **negative**: extract the probe, flush with saline in the working channel. **Repeat from step 4** by moving the endoscope to another site (more proximal).

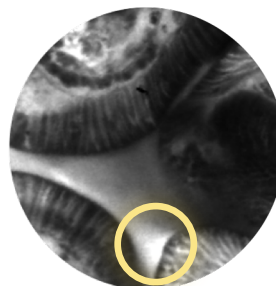
Continue testing all your food preparations, ensuring the total procedure time **does not exceed 30 minutes**

Negative reaction

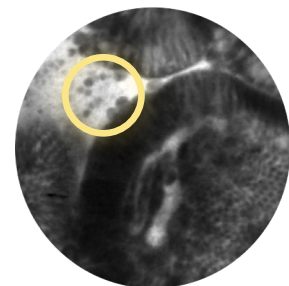


Lack of reaction

Positive reaction



Fluorescence leakage



Cell shedding

CellTolerance® Test Suggested Preparation

1



Weigh the powder using a scale.

2



Place the powder in a recipient, add the saline solution and mix.

3



Aspirate the content with a 50ml syringe, shake it to avoid lumps.

| Powder | Amount | Saline dilution volume |
|-------------------|--------|------------------------|
| Wheat Flour | 3g | 30ml |
| Dry Yeast | 1,5g | 30ml |
| Soy Flour | 3g | 30ml |
| Cow's Milk Powder | 1,5g | 30ml |
| Dry Egg White | 1,5g | 30ml |
| Peanut Flour | 3g | 30ml |

Suggested Concentrations for Most Common Food Agents



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This guide is based on Balsiger LM, Rusticeanu M, Langhorst J, Sina C, Benamouzig R, Huang C, Tack J, Kiesslich R. Review: Food-induced mucosal alterations visualized using endomicroscopy. Neurogastroenterol Motil. 2024 Sep 24:e14930. doi: [10.1111/nmo.14930](https://doi.org/10.1111/nmo.14930).

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