

# TECRA®

## QUANTITATIVE FOLATE ASSAY

A simple 2-hour test for the measurement of folate in raw materials and folate fortified foods.

### Why Test for Folate?

- ◆ Increasingly, consumers are relying on the nutritional labeling of foods to monitor their daily intake of basic food groups, vitamins and minerals.
- ◆ Accurate labeling of products fortified with folate is **critical** as too little folate intake has been linked to defects of the embryonic neural tube during pregnancy, and too much folate may mask Vitamin B12 deficiency in the elderly, which could lead to brain damage.
- ◆ During manufacturing, added folate may be inactivated by light, destroyed by heating with acid, or unevenly distributed through the product during blending or spray drying. This makes process validation and finished product monitoring essential.
- ◆ The TECRA folate method makes it fast, simple and economical to confirm your label claim for added folate.

### Why Use the TECRA Folate Method?

**Fast**

- ◆ Results within 2 hours! No need to wait 2 or more days as with microbiological methods.

**Simple and Convenient**

- ◆ Quickly confirm the level of added folate in raw materials, finished products, process validation and shelf-life studies.
- ◆ Minimal sample preparation time compared with 2 days preparation time for microbiological methods.
- ◆ One simple extraction procedure for all fortified food samples.
- ◆ Large numbers of samples can be tested simultaneously. With microbiological methods only a small number of samples can be run per day.
- ◆ Easy-to-interpret results.
- ◆ All reagents provided (including standards).



A simple 2-hour folate test!

**Proven Performance and Reliability**

- ◆ Comparative studies show greater accuracy and reliability, and less variability than with the microbiological assay.
- ◆ More sensitive than the HPLC method for folate.

**Economical**

- ◆ Low cost, high sample throughput will save you time and money.

**Flexible**

- ◆ Recommended for a wide range of folate fortified foods and raw materials.

**Customer Training and Support**

- ◆ You can rely on the extensive technical, training and sales support from TECRA staff and also through TECRA's global network of distributors.

**Other Materials Required to Run the Kit:**

- ◆ Bench centrifuge capable of 1000-3000xg
- ◆ Incubator: 35-37°C
- ◆ Pipettes
- ◆ Pipette Tips
- ◆ Polypropylene tubes (approx. 10mL)
- ◆ Plastic cling wrap film
- ◆ Boiling water bath/autoclave
- ◆ Plastic squeeze bottle (500mL)
- ◆ Grinder or homogenizer
- ◆ Centrifuge tubes
- ◆ Aluminium foil
- ◆ Deionised or distilled water
- ◆ ELISA microplate reader
- ◆ Hydrochloric acid 10M (HCl)
- ◆ Tris [Tris(hydroxymethyl)aminomethane]
- ◆ Sodium chloride

**Product Information**

TECRA Product Code	No. of Wells	Max. No. of Tests	Min. No. of Tests
FOLQCA96	96	14 - 43*	1

\* The maximum number of tests will depend on operator confidence in the estimated level of folate.



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