



## Phytic Acid Content Assay kit

---

Phytic acid, also known as inositol hexadecanol hexophosphate, is ubiquitous in eukaryotic cells and plays a key role in many cellular activities, such as maintaining inorganic phosphorus homeostasis, participating in plant hormone signaling, and acting as a cofactor for enzymes involved in DNA repair, RNA editing, and mRNA export. Phytic acid (PA) is widely present in plant foods such as cereals, legumes, fruits, vegetables and dried fruits and provides the main phosphorus source during plant germination and growth. Under certain environmental conditions, phytase can decompose sodium phytate (sodium dodecyl inositol hexaphosphonate) to produce inorganic phosphorus and inositol derivatives. Under acidic conditions, inorganic phosphorus reacts with ammonium molybdate chromogenic agent to produce blue molybdenum blue substance, which has a characteristic absorption peak at 700 nm. By measuring the content of inorganic phosphorus, phytic acid content can be calculated.

|                   |                        |
|-------------------|------------------------|
| Catalog No.       | 250584                 |
| Size              | 50 Assays / 100 Assays |
| Product Category  | Colorimetric Assay     |
| Storage/Stability | -20°C/6 months         |
| Shipping          | Gel Packs              |