

Study Eligibility Criteria.

Inclusion Criteria
<ul style="list-style-type: none">• Healthy female participants > 18 years old• Premenopausal (experiencing regular menstrual cycles)• Hemoglobin > 11.0 g/dL• Serum ferritin < 70 ng/mL• C-reactive protein (CRP) < 3 mg/L• BMI 18-29 kg/m²• No intake of dietary supplements containing iron 30 days prior to enrollment• Willing and able to give written informed consent• Able to read, understand, sign and date the informed consent document (English only)• Able and willing to comply with the schedule visit(s) and study requirements
Exclusion Criteria
<ul style="list-style-type: none">• Currently taking (within the past 14 days) dietary supplements including, vitamins (any), minerals, protein shakes, vitamin water, other supplements• History of gastrointestinal disorders that could lead to uncertain absorption of the study supplements, (i.e., inflammatory bowel disease, ulcerative colitis, Crohn's disease, colostomy, or eating disorder)• History or current malignancy• Receiving chemotherapy agents or radiation treatments• Prior health issues showing high CRP or other inflammatory markers• Pregnancy or has breast fed within 3 months prior to enrollment• BMI <18 or >30 kg/m²• Diagnosis of a terminal illness• Use of prescription medications that impact digestion (i.e., proton pump inhibitor medications, other)• History of alcohol abuse• History or current drug abuse• History or current cigarette smoke (including vaping) within the past 14 days from the screening visit• Insulin-dependent diabetes and/or metformin use• Chronic kidney or liver disease• Anemia• Has significant concurrent illnesses (controlled or uncontrolled), such as diabetes, lupus, epilepsy, or cardiac disorders, hepatitis B/C, HIV, serious mental health illness such as dementia or schizophrenia; psychiatric hospitalization in the past two years, or other, which in the opinion of the investigator, such condition might be aggravated because of treatment• The investigator feels that for any reason the participant is not eligible to participate in the study• History of uncontrolled cardiovascular disease (i.e., myocardial infarction, hypertension, hypercholesterolemia, peripheral vascular disease, other)• History of or current bleeding disorders (i.e., hemophilia or von Willebrand disease), or anticipated treatment with prescription anticoagulants• Developmental disability or cognitive impairment that would preclude adequate comprehension of the informed consent form and/or ability to follow study participant requirement and/or record the necessary study measurements• A family member of the investigator or an employee of the investigator• Participation in any other investigational study within 30 days prior to consent