



Beetrates® (Beet Juice Powder)

Beets are the root of the beet plant and studies have shown they provide a big boost to health. They are notably rich in nitrates which are converted into nitric oxide in the body. Nitric oxide can help to improve blood flow, dilate blood vessels and comfort the body into relaxation.

For endurance athletes, the Beetrates® metabolizes into nitric oxide, allowing the body to use less oxygen in activities requiring prolonged energy output.

- Dosage: 6 grams



2 kg (4.4lbs)
fresh beets

=



0.72 kg (25.5 oz)
fresh beet juice

=



6 grams (0.21 oz)
Beetrates®

BENEFITS

- Rich source of antioxidants for overall health
- Liver function
- Cardiovascular health & blood circulation
- Circulatory system, blood pressure
- Endurance, stamina and body building
- Natural colorant

FEATURES

- High quality beet juice powder containing 3.7 - 4.4 betanin color value

Request a sample or learn more about Beetrates® at: customerservice@orcasnaturals.com.



**SPECIFICATION
BEETRATES®
(Beet Juice Powder)**

Latin Name:	<i>Beta Vulgaris</i>	Product Code: BVR-PWD
Country of Origin:	India	
Plant Part Used:	Root	

DESCRIPTION	SPECIFICATION	TEST METHOD
<u>Physical Properties</u>		
Identification	Pass	HPTLC / TLC
Color	Dark purple	Visual
Appearance	Powder	Visual
Flavor	Characteristic	Organoleptic
Odor	Characteristic	Organoleptic
<u>Analytical Assay</u>		
Solubility (in water)	Soluble	In House Specification
Max Absorbance	525nm – 535nm	In House Specification
Moisture	NMT 5%	1g / 105°C / 2hrs
Ash Content	NMT 5%	In House Specification
Bulk Density	0.32g/cc – 0.50g/cc	Density Meter
pH (1% solution)	3.5 – 5.5	USP <791>
Acidity (Citric Acid)	NMT 5%	In House Specification
Particle Size	100% thru 40 mesh	USP <786>
<u>Trace Metals</u>		
Heavy Metals	NMT 10 ppm	USP <231>
Lead	NMT 3 ppm	ICP-MS
Arsenic	NMT 2 ppm	ICP-MS
Mercury	NMT 0.5 ppm	ICP-MS
Cadmium	NMT 1 ppm	ICP-MS
<u>Microbial Assay</u>		
Total Plate Count	NMT 10,000 cfu/g	AOAC, BAM
Yeast & Mold	NMT 100 cfu/g	AOAC, BAM
E. Coli	Absent	AOAC, BAM
Salmonella	Absent / 25g	AOAC, BAM
Coliforms	Absent / 0.1g	AOAC, BAM
Staphylococcus aureus	Absent / 1g	AOAC, BAM
<u>Assay</u>		
Betanin Color Value (E1% 1cm)	3.7 – 4.4%	UV Spectrophotometer

Storage: Store in a cool, dry place away from direct sunlight.

GMO Free

Material is NON-ETO, NON-Irradiated

Shelf Life: Retest 1 year from date of manufacturing.

Quality Assurance By: _____