

QUALITY CONTROL DEPARTMENT
-: Certificate of Analysis:-

Name of Product	MUSCLE XP AMINO BLEND + ENERGY ORANGE FLAVOR (400 GM)	A.R. No.	TWN/FPF0115/19
TDS No.	TWN/QCD/TDF-0096-00	Received Date	09/02/2019
Batch No.	EMB19008	Date of Release	18/02/2019
Mfg. Date	FEB.2019	Batch Size	400 kg
Best Before	18 month from mfg.	Sampled Qty.	2 JAR
Specification No.	TWN/FPS/0096-00	Sampled By	Mr. ADITYA

Sr.No.	Tests	Specifications	Observation	
1.	Description	Light brown colored Orange flavored powder & with occasionally yellow granules.	Light brown colored Orange flavored powder & with occasionally yellow granules.	
2.	Identifcation For L- valine, L-Isoleucine & L-leucine	In the chromatograms, the retention time of principal peaks of the L-Valine, L-Isoleucine & L-Leucine in the assay preparation should correspond to that of the Standard preparation.	Complies	
3.	*pH	Between 3.00 to 5.00	4.29	
4.	*Loss on drying (at 105°C for 3 hrs)	NMT 3.0 % w/w	0.45 % w/w	
5.	Organoleptic Reconstitution (8g in 250-300ml drinking water)	Orange colored orange flavored suspension.	Orange colored orange flavored suspension.	
6.	*Bulk Density			
	Untapped	Between 0.45 to 0.65g/ml	0.69 g/ml	
	Tapped (100 tap)	Between 0.55 to 0.75g/ml	0.87 g/ml	
7.	Assay			
	Content	claim	Limit	Result
	L-Valine	375 mg	NLT 90% of Labeled amount i.e NLT 337.50mg) L-Valine	579.37 mg 154.5 %



Tirupati
Wellness

Tirupati Wellness LLP

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L-Isoleucine	375 mg	NLT 90% of Labeled amount i.e NLT 337.50mg) L-Isoleucine	517.86 mg 138.1%
L-leucine	750 mg	NLT 90% of Labeled amount i.e NLT 675.00mg) L-leucine	1188.49 mg 158.5%
8.	Microbial limit test :		
	Microbiological test	Limit	Observation
	Total Plate count	NMT 10,000 cfu/g	600 cfu/g
	Total fungal count	NMT 1000 cfu/g	<100 cfu/g
	E.coli	Should be absent/g	Absent/g
	Salmonella	Should be absent/25g	Absent/25g
	Pseudomonas aeruginosa	Should be absent/g	Absent/g
	Staphylococcus	Should be absent/g	Absent/g

Remark: The sample complies /does not comply with respect to IN-HOUSE specification.
*pH, LOD & Bulk density/ Tap density will be finalized after three commercial batches.

Analysed By:
Date: 18/02/2019

Checked By:
Date: 18/02/2019

Approved By:
Date: 18/02/2019