



**Tirupati**  
Wellness

Tirupati Wellness LLP

Surajpur, Nahan Road, Paonta Sahib, Dist. Sirmour, Himachal Pradesh - 173 001, India

**QUALITY CONTROL DEPARTMENT**

**-: Certificate of Analysis:-**

|                   |                                |                 |                |
|-------------------|--------------------------------|-----------------|----------------|
| Name of Product   | MUSCLE XP BCAA ORANGE<br>400GM | A.R. No.        | TWN/FPF0404/18 |
| TDS No.           | TWN/QCD/TDF-0037-00            | Received Date   | 21/09/2018     |
| Batch No.         | EMB18009                       | Date of Release | 08/10/2018     |
| Mfg. Date         | Sep.2018                       | Batch Size      | 400kg          |
| Best Before       | 24 months                      | Sampled Qty.    | 1Jar           |
| Specification No. | TWN/FPS/0020-00                | Sampled By      | Mr. shiv       |

| Sr.No. | Tests   | Specifications  | Observation  |
|--------|---|---|--|
| 1.     | Description   | White colored orange flavoured powder with occasional yellow colored granules.  | White colored orange flavoured powder with occasional yellow colored granules. |
| 2.     | Identification<br>For L- valine,<br>L-Isoleucine &<br>L-leucine   | In the chromatograms, the retention time of principal peaks of the L-Valine, L-Isoleucine & L-Leucine in the assay preparation should match with Standard preparation as directed in the assay. | Complies   |
| 3.     | pH  | Between 2.0 to 5.0  | 3.51   |
| 4.     | Loss on drying<br>(at 105°C for 3<br>hrs)                         | NMT 2.0 % w/w   | 0.90% w/w  |
| 5.     | Organoleptic<br>Reconstitution<br>(9g in 250ml<br>drinking water) | Orange colored orange flavoured solution  | Complies   |
| 6.     | Bulk Density  |   |  |
|        | Untapped  | Between 0.50 to 0.70g/ml  | 0.62 g/ml  |
|        | Tapped<br>(100 tap)   | Between 0.55 to 0.75g/ml  | 0.71 g/ml  |
| 7.     | Assay   |   |  |
|        | Content   | Limit   | Result   |



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|              |   |                 |
|--------------|---|-----------------|
| L- valine    | NLT 90% of Labeled amount i.e.<br>( NLT 1.35 g of L-Valine)     | 103.3% (1.55 g) |
| L-Isoleucine | NLT 90% of Labeled amount i.e.<br>( NLT 1.35 g of L-Isoleucine) | 103.3% (1.55g)  |
| L-leucine    | NLT 90% of Labeled amount i.e.<br>( NLT 2.70 g of L-Leucine)    | 99.3% (2.98g)   |

Remark: The sample complies /does not comply with respect to IN-HOUSE specification.

Analysed By: *Amr*  
Date : 08/10/2018

Checked By: *B*  
Date : 08/10/2018

Approved By: *Amr*  
Date : 08/10/2018