

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Casamino Acids
 BATCH NO. 18/MFM/2093
 MANUFACTURING DATE: October 2017
 EXPIRY DATE: October 2022

| TESTS | SPECS | RESULTS |
|-----------------------------------|------------------|---------|
| Appearance | Beige Powder | Pass |
| Solubility in Water (5% solution) | Complete | Pass |
| pH (5% solution) | 4.7 – 5.7 | 5.1 |
| Loss on Drying | Maximum 6.0% | 1.8% |
| Total Nitrogen TN | 7.0 – 8.5% | 8.0% |
| Alpha-amino Nitrogen AN | 5.0 – 6.5% | 6.0% |
| AN/TN x 100 | 56 - 93 | 75 |
| Chlorides (NaCl) | Maximum 45.0% | 38.0% |
| Total aerobic microbial count | Maximum 5 000 /g | Pass |

- *The milk casein used for manufacturing the batch of this product is of bovine origin.*
- *The casein is sourced in sourced in New-Zealand and come from herds free from Bovine Spongiform Encephalopathy and foot-and-mouth disease after examination by the Veterinary Authorities*

* This material is supplied for laboratory use only.

Supplier: Formedium Ltd

Approved by:

For and on behalf of
FORMEDIUM Ltd, Unit 1B
Hunstanton Commercial Park
PE36 5JQ, England Date: **23 MAR 2018**
 (Authorised Signature)