



CERTIFICATE OF ANALYSIS

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|---------------------------|----------------------|------------------------|---------------------|
| Product Name | Fish collagen | Batch no. | 14060612002Y |
| Raw material | Tilapia scale | Inspection date | 2014.06.12 |
| Manufacturing date | 2014.06.06 | Expiry date | 2016.6.6 |

| Inspection item | Standard | Result |
|--|-----------------------------------|---------------|
| Appearance | Powder | CONFORMITY |
| Colour | White or yellowish | CONFORMITY |
| Odor | Neutral | CONFORMITY |
| Impurity | Can not be seen by the naked eyes | CONFORMITY |
| Total Nitrogen (in dry basis) | ≥ 14.5 | 17.19 |
| pH | 4-7 | 5.8 |
| Moisture, % | ≤ 7.0 | 5.13 |
| Ash, % | ≤ 2.0 | 1.06 |
| Density (g/l) | | 420g/l |
| Molecular weight, (Da) | <1000 | CONFORMITY |
| Lead (Pb), mg/kg | ≤ 0.5 | < 0.005 |
| Arsenic (As), mg/kg | ≤ 1.0 | <0.066 |
| Cadmium (Cd), mg/kg | ≤ 0.5 | <0.0001 |
| Copper (Cu), mg/kg | ≤ 20 | <20 |
| Mercury (Hg), mg/kg | ≤ 0.15 | <0.01 |
| Zinc (Zn), mg/kg | ≤ 20 | <1.0 |
| Sulphur dioxide | ≤ 10 | <10 |
| Total Bacteria Count, (cfu/g) | ≤ 5000 | < 10 |
| E.coli, (MPN/g) | <0.3 | <0.3 |
| Mold, (cfu/g) | ≤ 25 | <10 |
| Yeast, (cfu/g) | ≤ 25 | <10 |
| <i>Salmonella</i> | Negative | Negative |
| <i>Staphylococcus aureus</i> | Negative | Negative |
| <i>Clostridium spp.</i> | Negative | Negative |
| Conclusion: complies with Q/LZSW 0001S-2011 Standard | | |