

## CERTIFICATE OF ANALYSIS

### Hydrogenated protein

<b>Batch No.:</b> DR20161009	<b>Quantity:</b> 200kg
<b>Manufacture Date:</b> 2016.10.09	<b>Retest Date:</b> 2018.10.08

**TESTS:**

Items	Specification	Results
Characters	White or light grey powder	Conforms
Identification	IR: comply with the requirement	Conforms
	Amino acid: comply with the requirement	Conforms
Water soluble substance	$\cong 4.0\%$	0.6%
Pepsin soluble substance	$\cong 25.0\%$	11.7%
Ammonium insoluble substance	$\cong 15.0\%$	6.9%
Loss on drying	$\cong 5.0\%$	2.2%
Ash	$\cong 2.0\%$	1.9%
Heavy metals	$\cong 30\text{ppm}$	Conforms
pH	5.5 ~ 7.5	6.4
Fat	$\cong 5.0\%$	0.5%
Microbial limit	Total aerobic microbial count $\cong 1000\text{CFU/g}$	$<10\text{CFU/g}$
	Total yeasts and moulds count $\cong 100\text{CFU/g}$	$<10\text{CFU/g}$
	Escherichia coli : Absence	Not detected
	Salmonella : Absence	Not detected
	Pseudomonas aeruginosa : Absence	Not detected
	Staphylococcus aureus : Absence	Not detected
Assay	Nitrogen : $\cong 14\%$	14.2%
	Protein : $\cong 80.0\%$	88.8%
	L-threonine : $\cong 3.66\%$	3.72%
	L-phenylalanine : $\cong 2.80\%$	2.95%
	L-isoleucine : $\cong 3.26\%$	3.48%

**Conclusion: The results conform with the standard.**



Analyst: Joe Yu      Checker: Agnes Zhong      QA Manager: Sun Wenhui