中国认可
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检测
TESTING
CNAS L0604

Test Report **QDF23-053490-06** **Date: 15 Sep 2023**

Client name:	True Peptide Biotechnology (Dalian) Co., Ltd.
Client address:	No.611 Guang Fu Road,Changxingdao Economic Zone,Dalian City,Liaoning Province
Sample name:	Nanoscale Active Peptide
Manufacturer:	True Peptide Biotechnology (Dalian) Co., Ltd.
Sample Batch No.:	/
Production Date:	/
Sample size/specification:	/
Manufacturer address:	Plant No. 1, No. 611 Guang Fu Road, Changxingdao Economic Zone, Dalian City, Liaoning Province

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Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS Reference No. :	DLF23-016413
Date of sample received:	04 Sep 2023
Test Period:	04 Sep 2023 – 14 Sep 2023
Test Requested:	Selected test(s) as requested by client.
Test method(s):	I Please refer to next page(s).
Test Result(s):	Please refer to next page(s).

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SGS Authorized Signature

Scan to see the report
QDF23-053490-06
Verification:
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Test Report **QDF23-053490-06** **Date: 15 Sep 2023**

Sample Description :

Specimen No.	SGS Sample ID	Description
1	QDF23-053490.001	sample in bottle

Chemical test

Test Result(s):

Test Item(s)	Unit	Test Method(s)	Test Result(s) 001	LOQ
Oligopeptides content(on dry base)	%	GB/T 22729-2008	94.8	-
**Aspartic acid	g/100 g	In house method-Hydrolyzed, AAA	8.14	0.01
**Threonine	g/100 g	In house method-Hydrolyzed, AAA	3.39	0.01
**Serine	g/100 g	In house method-Hydrolyzed, AAA	4.16	0.01
**Glutamic acid	g/100 g	In house method-Hydrolyzed, AAA	12.14	0.01
**Glycine	g/100 g	In house method-Hydrolyzed, AAA	18.37	0.01
**Alanine	g/100 g	In house method-Hydrolyzed, AAA	6.94	0.01
**Valine	g/100 g	In house method-Hydrolyzed, AAA	2.83	0.01
**Isoleucine	g/100 g	In house method-Hydrolyzed, AAA	2.08	0.01
**Leucine	g/100 g	In house method-Hydrolyzed, AAA	4.08	0.01
**Tyrosine	g/100 g	In house method-Hydrolyzed, AAA	1.62	0.01
**Phenylalanine	g/100 g	In house method-Hydrolyzed, AAA	2.18	0.01
**Lysine	g/100 g	In house method-Hydrolyzed, AAA	2.76	0.01
**Histidine	g/100 g	In house method-Hydrolyzed, AAA.	1.33	0.01
**Arginine	g/100 g	In house method-Hydrolyzed, AAA	8.38	0.01
**Proline	g/100 g	In house method-Hydrolyzed, AAA	8.96	0.01
**Cystine	g/100 g	In house method-Hydrolyzed, AAA	0.40	0.01
**Methionine	g/100 g	In house method-Hydrolyzed, AAA	1.87	0.01
**Tryptophan	g/100 g	In house method-Hydrolyzed, HPLC	0.37	0.01

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Test Item(s)	Unit	Test Method(s)	Test Result(s) 001	LOQ
**Total of Hydrolyzed Amino Acid(18 items)	g/100 g	In house method-Hydrolyzed, AAA	90.00	-
**Aspartic acid	g/100 g	In house method-Free, AAA	0.09	0.01
**Threonine	g/100 g	In house method-Free, AAA	0.04	0.01
**Methionine	g/100 g	In house method-Free, AAA	ND	0.01
**Serine	g/100 g	In house method-Free, AAA	0.05	0.01
**Glutamic acid	g/100 g	In house method-Free, AAA	0.41	0.01
**Glycine	g/100 g	In house method-Free, AAA	0.06	0.01
**Alanine	g/100 g	In house method-Free, AAA	0.13	0.01
**Valine	g/100 g	In house method-Free, AAA	ND	0.01
**Isoleucine	g/100 g	In house method-Free, AAA	0.14	0.01
**Leucine	g/100 g	In house method-Free, AAA	0.13	0.01
**Tyrosine	g/100 g	In house method-Free, AAA	ND	0.01
**Phenylalanine	g/100 g	In house method-Free, AAA	ND	0.01
**Lysine	g/100 g	In house method-Free, AAA	0.15	0.01
**Histidine	g/100 g	In house method-Free, AAA	0.01	0.01
**Arginine	g/100 g	In house method-Free, AAA	0.28	0.01
**Proline	g/100 g	In house method-Free, AAA	ND	0.01
**Tryptophan	g/100 g	In house method-Free, AAA	0.03	0.01
**Cystine	g/100 g	In house method-Free, AAA	ND	0.01
**Sum of 18 free amino acids	g/100 g	In house method-Free, AAA	1.52	-
*Proportion of collagen peptides with relative molecular weight <10000	%	GB 31645-2018 Appendix A GPC/UV	100.00	-
*Proportion of collagen peptides with relative molecular weight ≤5000	%	GB 31645-2018 Appendix A GPC/UV	99.97	-
*Proportion of collagen peptides with relative molecular weight ≤2000	%	GB 31645-2018 Appendix A GPC/UV	96.32	-
*Proportion of collagen peptides with relative molecular weight ≤1000	%	GB 31645-2018 Appendix A GPC/UV	82.78	-
*Total average molecular weight (Mw)	-	GB 31645-2018 appendix A GPC/UV	544	-

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* Molecular weight distribution:

Molecular weight range	Percentage of peak area (%) (λ 220nm)	Number-average molecular weight (Mn)	Weight-average molecular weight (Mw)
>10000	0	0	0
10000-5000	0.03	5557	5605
5000-3000	0.55	3540	3593
3000-2000	3.10	2317	2338
2000-1000	13.54	1339	1375
1000-500	25.32	635	650
500-189	29.20	231	247
<189	28.26	/	/

Remark:
Remark:
1.ND = Not Detected
2.LOQ = Limit of Quantitation
3.* Test item(s) were carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch ,were not included in the CNAS Accredited Schedule for the laboratory.
4.* *Test item(s) were not included in the CNAS Accredited Schedule for our laboratory.
5.Total average molecular weight（Mw）equals to Mw times its relative percentage of peak area, and presumed the Mw of molecular weight range < 189 is 94.5.

Attention:
Chinese shall prevail in this report.
This Test Report supersedes the Test Report No. QDF23-053490-03 by SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd. Original test report will be invalid from today.
Unless otherwise stated the results shown in this test report refer only to the items tested.This document cannot be used for improper publicity, without prior written approval of the SGS. The test report shall only used for scientific research, teaching, internal quality control.

*** End ***

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