



Certificate of Analysis

Product Name	Lutein Beadlet		
Product code	0106030000047	Specification	10%TAB-S
Batch No.	2024030504	Test No.	A2404005
Sample Source	6016	Package	Bag
Mfg.Date	2024/03/23	Quantity	1500kg
Expiry Date	2027/03/22	Test Standard	O.QCS.8002.A.010(V01)

Items	Methods	Specifications	Results
Description	Visual	Red to reddish-brown free-flowing beadlets, with white spots of starch	Reddish-brown free-flowing beadlets, with white spots of starch
Identification	HPLC	Conform to the reference solution	Conform to the reference solution
Loss on drying	USP<731>	≤5.0%	3.8%
Heavy metals(as Pb)	USP<231>	≤0.001%	<0.001%
Lead	ICP-MS	≤0.5ppm	n.d.
Arsenic		≤1.5ppm	n.d.
Mercury		≤0.1ppm	n.d.
Cadmium		≤0.5ppm	n.d.
Assay of total carotenoid (as Lutein)	UV	≥10.0%	11.7%
Assay of Lutein/ Assay of Lutein Assay of Zeaxanthin	HPLC	≥10.0% ≥0.6%	10.7% 0.6%
Particle Size Pass through sieve No.20 Pass through sieve No.40 Pass through sieve No.100	USP<786>	100% ≥85% ≤15%	100% 93% 4%
Microbial test Total aerobic microbial count Total moulds and yeasts count Enterobacterial Salmonella ¹ Escherichia coli ¹ Staphylococcus aureus ¹ Pseudomonas aeruginosa ¹	Ph.Eur.2.6.12 Ph.Eur.2.6.13	≤1000cfu/g ≤100cfu/g ≤10cfu/g n.d./25g n.d./10g n.d./10g n.d./10g	<10cfu/g <10cfu/g <10cfu/g n.d. n.d. n.d. n.d.

Conclusion: Conform to O.QCS.8002.A.010(V01)

Remark: ¹ Performed the tests once half a year.

Certified indicates data obtained by statistically designed sampling audits.

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Reviewer: 姜明 2024.04.15

Approver: 姜明 2024.04.15