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Gnosis by Lesaffre

EMOTHION™ S-Acetyl Glutathione

CERTIFICATE OF ANALYSIS

EMOTHION
(S-Acetyl)-L-Glutathione
Food Grade

Batch Nr.: 0001901533 **Manufacturing date:** October 2019 **Retest date:** October 2022

Code: 0-G13-03

TESTS	SPECIFICATIONS	UM	RESULTS	ANALYTICAL METHOD REFERENCES
Appearance	White or almost white crystalline powder with characteristic odour	-	Complies	Visual
Identification IR	Positive	-	Complies	GN AG 003
Related Sub (HPLC):L-Glutathione	<= 1,5	%	0,9	GN AG 001
Related Sub(HPLC):L-glutathione oxidized	<= 1,5	%	0,8	GN AG 001
Related Sub (HPLC): Cysteine	<= 0,5	%	Not determinable	GN AG 001
Related Sub (HPLC): Any other impurity	<= 0,2	%	0,1	GN AG 001
Related Sub (HPLC): Total impurities	<= 2,5	%	1,8	GN AG 001
Acetic Acid	<= 0,5	%	< 0,5	GN AG 001
Assay (HPLC)	97,0 - 102,0	%	98,5	GN AG 001
Lead	<= 0,5	ppm	< 0,1	EP 2.2.58 or EP 2.2.57/U SP< 233>
Cadmium	<= 0,5	ppm	< 0,1	EP 2.2.58 or EP 2.2.57/U SP< 233>
Mercury	<= 0,1	ppm	< 0,0	EP 2.2.58 /USP< 233>
Arsenic	<= 1,5	ppm	< 0,1	EP 2.2.58 or EP 2.2.57/U SP< 233>
Loss on drying (at 105°C to constant w.)	<= 1,0	%	0,6	EP 2.2.32
Sulphated Ash	<= 0,1	%	0,0	EP 2.4.14
Residual Solvents (GC): Acetone	<= 0,1	%	0,1	GN AG 002
Bulk Density	0,25 - 0,40	g/ml	0,35	EP 2.9.34
Particle size (<1000 µm)	>= 99	%	100	EP 2.9.38
Particle size (<500 µm)	>= 80	%	87	EP 2.9.38
Tapped density	0,30 - 0,60	g/ml	0,58	EP 2.9.34
Total viable aerobic count *	<= 10^3	CFU/g	< 10	USP< 2021>
Total combined yeast and molds *	<= 10^2	CFU/g	< 10	USP< 2021>
E.Coli	Absent /10g	-	Complies	USP< 2022>

- 10^3 CFU: MAXIMUM ACCEPTABLE COUNT= 2000
- 10^2 CFU: MAXIMUM ACCEPTABLE COUNT= 200

Released by: Minniti Giovanni
Title: Quality Unit Director & QP
Date: November 12.2019

PS. ED.:017 DATE: 24/10/2019