

## PRODUCT DATA SHEET:

### Stearates - High Purity Grade



Life Sciences

#### Stearates - Magnesium Stearate - Vegetable

**Magnesium - 919-GNI:** Pharmaceutical grade magnesium stearates are used as binders, lubricants and tablet release agents. They are also used in cosmetics as anti-caking agents, binding agents, dusting additives, emulsifying agents, gelling agents, thickening agents and in the suspension of pigments.

TYPICAL PHYSICAL PROPERTIES	
Melting Point (°C)	130 - 145
Bulk Density (g/ml)	0.15
Median Particle Size (micron)	9.3

**BSI Code:** 919-GNI

**C.A.S. Number:** 557-04-0

**Monographs:** USP / NF / EP / JP

**Certifications:** Kosher

**Note:** NI = Non Irradiated

**Particle Size Distribution:** See Page 2

TYPICAL CHEMICAL PROPERTIES	
Grade	Vegetable
Oxide (%)	6.65 - 8.3
Fatty Acid Solidification (°C)	53
Acid Value of Fatty Acid (mg KOH/gram)	195 - 210
Moisture (max %)	4.0
Soluble Salts (%)	0.1
Lead - Pb (max ppm)	5
Arsenic - AS (max ppm)	3
Nickel - Ni (max ppm)	5
Cadmium - Cd (max ppm)	3
Magnesium - Mg (5)	4.0 - 5.0
Heavy Metals (max ppm)	20
Acidity (N/100)	0.5
Chloride (%)	0.1
Sulfate (max %)	0.5

**Storage:** Store in cool location, keep away from heat and direct sunlight. Keep container sealed.

**Handling Precautions:** Please refer to the Magnesium Stearate Safety Data Sheet.

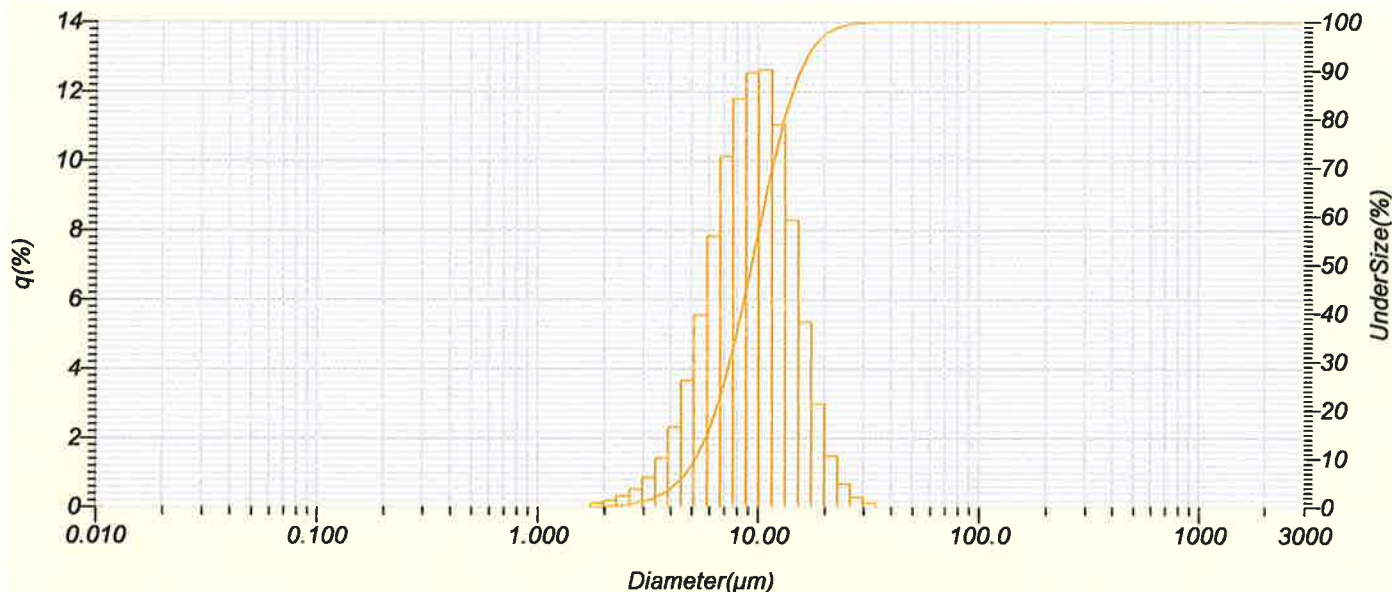
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# HORIBA LA950 for Windows [Wet] Ver3.55 Laser Light Scattering Particle Size Analysis

## BSI

Sample Name	: 919-GNI Magnesium Sterate	Median Size	: 9.34080(μm)
ID#	: 201708161212591	Mean Size	: 9.97681(μm)
Transmittance(R)	: 82.7(%)	Std.Dev.	: 4.2443(μm)
Transmittance(B)	: 81.1(%)	Diameter on Cumulative %	: (1)10.00 (%) - 5.2011(μm)
Circulation Speed	: 3		: (2)50.00 (%) - 9.3408(μm)
Agitation Speed	: 2		: (3)90.00 (%) - 15.5126(μm)
Ultra Sonic	: OFF	Cumulative % on Diameter	:
Form of Distribution	: Manual		
Distribution Base	: Volume		
Material	: Mageniusm Stearate		
Source	: 0.5g of spl in 20mL IPA		
Lot Number	: MGS-R0354		
Test or Assay. Number	:		
Refractive Index (R)	: Magnesium Stearate[919-G( 1.800 - 0.000i),Water( 1.333)]		
Refractive Index (B)	: Magnesium Stearate[919-G( 1.800 - 0.000i),Water( 1.333)]		



No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	24	0.259	0.000	0.000	47	5.867	5.539	14.916	70	133.103	0.000	100.000
2	0.013	0.000	0.000	25	0.296	0.000	0.000	48	6.720	7.826	22.742	71	152.453	0.000	100.000
3	0.015	0.000	0.000	26	0.339	0.000	0.000	49	7.697	10.124	32.866	72	174.616	0.000	100.000
4	0.017	0.000	0.000	27	0.389	0.000	0.000	50	8.816	11.793	44.659	73	200.000	0.000	100.000
5	0.020	0.000	0.000	28	0.445	0.000	0.000	51	10.097	12.527	57.186	74	229.075	0.000	100.000
6	0.022	0.000	0.000	29	0.510	0.000	0.000	52	11.565	12.622	69.808	75	262.376	0.000	100.000
7	0.026	0.000	0.000	30	0.584	0.000	0.000	53	13.246	11.037	80.845	76	300.518	0.000	100.000
8	0.029	0.000	0.000	31	0.669	0.000	0.000	54	15.172	8.282	89.127	77	344.206	0.000	100.000
9	0.034	0.000	0.000	32	0.766	0.000	0.000	55	17.377	5.334	94.461	78	394.244	0.000	100.000
10	0.039	0.000	0.000	33	0.877	0.000	0.000	56	19.904	2.983	97.444	79	451.556	0.000	100.000
11	0.044	0.000	0.000	34	1.005	0.000	0.000	57	22.797	1.481	98.925	80	517.200	0.000	100.000
12	0.051	0.000	0.000	35	1.151	0.000	0.000	58	26.111	0.671	99.596	81	592.387	0.000	100.000
13	0.058	0.000	0.000	36	1.318	0.000	0.000	59	29.907	0.286	99.882	82	678.504	0.000	100.000
14	0.067	0.000	0.000	37	1.510	0.000	0.000	60	34.255	0.118	100.000	83	777.141	0.000	100.000
15	0.076	0.000	0.000	38	1.729	0.000	0.000	61	39.234	0.000	100.000	84	890.116	0.000	100.000
16	0.087	0.000	0.000	39	1.981	0.116	0.116	62	44.938	0.000	100.000	85	1019.515	0.000	100.000
17	0.100	0.000	0.000	40	2.269	0.193	0.310	63	51.471	0.000	100.000	86	1167.725	0.000	100.000
18	0.115	0.000	0.000	41	2.599	0.316	0.626	64	58.953	0.000	100.000	87	1337.481	0.000	100.000
19	0.131	0.000	0.000	42	2.976	0.518	1.144	65	67.523	0.000	100.000	88	1531.914	0.000	100.000
20	0.150	0.000	0.000	43	3.409	0.855	1.999	66	77.339	0.000	100.000	89	1754.613	0.000	100.000
21	0.172	0.000	0.000	44	3.905	1.412	3.411	67	88.583	0.000	100.000	90	2009.687	0.000	100.000
22	0.197	0.000	0.000	45	4.472	2.306	5.717	68	101.460	0.000	100.000	91	2301.841	0.000	100.000
23	0.226	0.000	0.000	46	5.122	3.660	9.377	69	116.210	0.000	100.000	92	2636.467	0.000	100.000