

## PRODUCT DATA SHEET:

### Stearates - High Purity Grade



Life Sciences

#### Stearates - Calcium Stearate - Vegetable

**Calcium - 920-G:** Vegetable grade calcium stearate is used as a lubricant, mold release agent, anti-caking agent, emulsifying agent, water repellent and thickening agent.

TYPICAL PHYSICAL PROPERTIES	
Melting Point (°C)	150 - 160
Bulk Density (g/ml)	0.26
Median Particle Size (micron)	12.4

**BSI Code:** 920-G

**C.A.S. Number:** 1592-23-0

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

**Certifications:** Kosher

**Particle Size Distribution:** See Page 2

TYPICAL CHEMICAL PROPERTIES	
Grade	Vegetable
Oxide (%)	9.0 - 10.3
Free Fatty Acid (max %)	1.0
Fatty Acid Solidification (°C)	54
Acid Value of Fatty Acid (mg KOH/gram)	195 - 210
Moisture (max %)	4.0
Soluble Salts (%)	0.1
Lead - Pb (max ppm)	10
Arsenic - AS (max ppm)	3
Nickel - Ni (max ppm)	5
Cadmium - Cd (max ppm)	3
Heavy Metals (max ppm)	20
Chloride (%)	0.1
Sulfate (%)	0.3

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

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

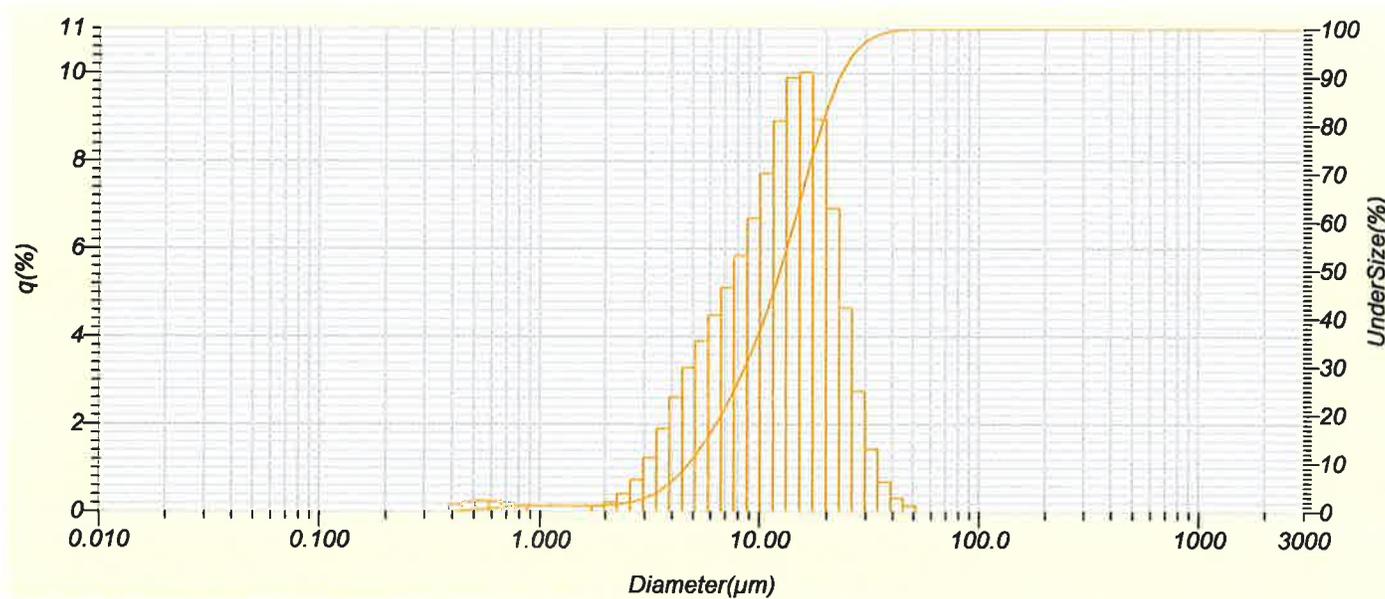
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# HORIBA LA950 for Windows [Wet] Ver3.55 Laser Light Scattering Particle Size Analysis

## BSI

Sample Name	: 920-G	Median Size	: 12.40739(μm)
ID#	: 201701051259581	Mean Size	: 13.29654(μm)
Transmittance(R)	: 78.5(%)	Std.Dev.	: 7.2928(μm)
Transmittance(B)	: 77.8(%)	Diameter on Cumulative %	: (1)10.00 (%) - 4.7811(μm)
Circulation Speed	: 3		: (2)50.00 (%) - 12.4074(μm)
Agitation Speed	: 2		: (3)90.00 (%) - 22.7762(μm)
Ultra Sonic	: OFF	Cumulative % on Diameter	:
Form of Distribution	: Manual		
Distribution Base	: Volume		
Material	: Calcium Stearates		
Source	: 0.5g of spl in 20mL IPA		
Lot Number	: R0801		
Test or Assay. Number	:		
Refractive Index (R)	: Calcium Stearate[Calcium Stearate( 1.460 - 0.000i),Water( 1.333)]		
Refractive Index (B)	: Calcium Stearate[Calcium Stearate( 1.460 - 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	3.893	15.582	70	133.103	0.000	100.000
2	0.013	0.000	0.000	25	0.296	0.000	0.000	48	6.720	4.473	20.036	71	152.453	0.000	100.000
3	0.015	0.000	0.000	26	0.339	0.000	0.000	49	7.697	5.106	25.142	72	174.616	0.000	100.000
4	0.017	0.000	0.000	27	0.389	0.000	0.000	50	8.816	5.844	30.986	73	200.000	0.000	100.000
5	0.020	0.000	0.000	28	0.445	0.157	0.157	51	10.097	6.685	37.671	74	229.075	0.000	100.000
6	0.022	0.000	0.000	29	0.510	0.217	0.374	52	11.565	7.714	45.385	75	262.376	0.000	100.000
7	0.026	0.000	0.000	30	0.584	0.246	0.620	53	13.246	8.908	54.293	76	300.518	0.000	100.000
8	0.029	0.000	0.000	31	0.669	0.232	0.852	54	15.172	9.888	64.181	77	344.206	0.000	100.000
9	0.034	0.000	0.000	32	0.766	0.187	1.039	55	17.377	10.022	74.203	78	394.244	0.000	100.000
10	0.039	0.000	0.000	33	0.877	0.137	1.176	56	19.904	8.933	83.137	79	451.556	0.000	100.000
11	0.044	0.000	0.000	34	1.005	0.000	1.176	57	22.797	6.910	90.047	80	517.200	0.000	100.000
12	0.051	0.000	0.000	35	1.151	0.000	1.176	58	26.111	4.648	94.694	81	592.387	0.000	100.000
13	0.058	0.000	0.000	36	1.318	0.000	1.176	59	29.907	2.739	97.433	82	678.504	0.000	100.000
14	0.067	0.000	0.000	37	1.510	0.000	1.176	60	34.255	1.434	98.867	83	777.141	0.000	100.000
15	0.076	0.000	0.000	38	1.729	0.000	1.176	61	39.234	0.684	99.551	84	890.116	0.000	100.000
16	0.087	0.000	0.000	39	1.981	0.127	1.302	62	44.938	0.310	99.862	85	1019.515	0.000	100.000
17	0.100	0.000	0.000	40	2.269	0.219	1.521	63	51.471	0.138	100.000	86	1167.725	0.000	100.000
18	0.115	0.000	0.000	41	2.599	0.401	1.922	64	58.953	0.000	100.000	87	1337.481	0.000	100.000
19	0.131	0.000	0.000	42	2.976	0.727	2.649	65	67.523	0.000	100.000	88	1531.914	0.000	100.000
20	0.150	0.000	0.000	43	3.409	1.233	3.881	66	77.339	0.000	100.000	89	1754.613	0.000	100.000
21	0.172	0.000	0.000	44	3.905	1.892	5.773	67	88.583	0.000	100.000	90	2009.687	0.000	100.000
22	0.197	0.000	0.000	45	4.472	2.610	8.382	68	101.460	0.000	100.000	91	2301.841	0.000	100.000
23	0.226	0.000	0.000	46	5.122	3.287	11.669	69	116.210	0.000	100.000	92	2636.467	0.000	100.000