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NIST Traceable Size Standards

Size Calibration Standards for Particle Sizing Instruments - HS Series						
Description	Nominal	Certified Mean Diameter	Size CV	Volume	Solids	Product number
HS-Series NIST-traceable Nanosphere Size Standards	100 nm	102 nm	6,8%	20 mL	2%	HS0010-20
	150 nm	149 nm	3,3%	20 mL	2%	HS0015-20
	180 nm	185 nm	3,0%	20 mL	2%	HS0018-20
	250 nm	251 nm	3,1%	20 mL	2%	HS0025-20
	300 nm	308 nm	3,0%	20 mL	2%	HS0030-20
	400 nm	401 nm	4,7%	20 mL	2%	HS0040-20
	500 nm	494 nm	1,7%	20 mL	2%	HS0050-20
	600 nm	621 nm	3,3%	20 mL	2%	HS0060-20
	700 nm	738 nm	3,7%	20 mL	2%	HS0070-20
HS-Series NIST-traceable Microsphere Size Standards	1,0 µm	0,993 µm	2,0%	20 mL	2%	HS0100-20
	1,5 µm	1,54 µm	1,6%	20 mL	2%	HS0150-20
	2 µm	2,05 µm	3,4%	20 mL	2%	HS0200-20
	5 µm	5,15 µm	4,4%	20 mL	3%	HS0500-20
	7 µm	7,25 µm	3,0%	20 mL	3%	HS0700-20
	10 µm	10,08 µm	3,1%	20 mL	3%	HS1000-20
	15 µm	15,30 µm	3,3%	20 mL	3%	HS1500-20
	20 µm	20,01 µm	2,9%	20 mL	3%	HS2000-20
	40 µm	38,6 µm	3,9%	20 mL	3%	HS4000-20
	50 µm	52,1 µm	3,7%	20 mL	3%	HS5000-20
	75 µm	75,6 µm	3,2%	20 mL	2%	HS7500-20
	100 µm	97,2 µm	4,1%	20 mL	2%	HS10000-20
	150 µm	142,9 µm	3,5%	20 mL	2%	HS15000-20
	220 µm	220,4 µm	3,9%	20 mL	3%	HS22000-20

Size Calibration Standards for Particle Counting Instruments - LS Series						
Description	Nominal	Certified Mean Diameter	Size CV	Volume	Concentration	Product number
LS-Series NIST-traceable Microsphere Size Standards	1,0 µm	1,05 µm	2,7%	5 mL	10 ⁵ to 10 ⁷ Part. / mL	LS0100-05
				20 mL		LS0100-20
	5 mL	LS0150-05				
	1,5 µm	1,45 µm	1,8%	20 mL		LS0150-20
				5 mL		LS0180-05
	1,8 µm	1,83 µm	1,7%	20 mL		LS0180-20
				5 mL		LS0200-05
	2,0 µm	2,03 µm	2,1%	20 mL		LS0200-20
				5 mL		LS0400-05
	4,0 µm	3,77 µm	4,0%	20 mL		LS0400-20
				5 mL		LS0450-05
	4,5 µm	4,58 µm	4,0%	20 mL		LS0450-20
				5 mL		LS0500-05
	5,0 µm	4,98	2,6%	20 mL		LS0500-20
				5 mL		LS0700-05
	7,0 µm	6,76	2,8%	20 mL		LS0700-20
				5 mL		LS0800-05
	8,0 µm	8,03 µm	3,0%	20 mL		LS0800-20
				5 mL		LS0900-05
	9,0 µm	9,33 µm	3,0%	20 mL		LS0900-20
				5 mL		LS1000-05
	10 µm	9,70 µm	2,2%	20 mL		LS1000-20
				5 mL		LS1400-05
	14 µm	13,49 µm	2,9%	20 mL		LS1400-20
				5 mL		LS2000-05
	20 µm	19,55 µm	2,8%	20 mL		LS2000-20
				5 mL		LS2500-05
	25 µm	24,3	1,9%	20 mL		LS2500-20
				5 mL		LS3000-05
	30 µm	29,0	2,9%	20 mL		LS3000-20
5 mL				LS4000-05		
40 µm	40,3	2,2%	20 mL	LS4000-20		
			5 mL	LS5000-05		
50 µm	50,4	1,9%	20 mL	LS5000-20		
			5 mL	LS8000-05		
80 µm	79,4	2,2%	20 mL	LS8000-20		

Multi-Size Standards - MS Series					
Description	Range	Volume	Solids	Product number	
Multi-Size Standards Polydisperse size distribution, consisting of multiple monodisperse size standards	0,2 µm to 2 µm	5 mL	2%	MS0002-05	
		20 mL	2%	MS0002-20	
Multi-Size Standards Polydisperse size distribution, consisting of multiple monodisperse size standards	1 µm to 10 µm	5 mL	2%	MS0110-05	
		20 mL	2%	MS0110-20	

Dry Size Calibration Standards for Particle Sizing Instruments - Pu Series					
Description	Nominal	Certified Mean Diameter	Size CV	Sales volume	Product number
Pu-Series NIST-traceable Microsphere Powder Size Standards	5 µm	5,12 µm	3,1%	1 g dry powder	Pu0500-01
	7 µm	6,68 µm	3,5%	1 g dry powder	Pu0700-01
	9 µm	8,69 µm	3,5%	1 g dry powder	Pu0900-01
	12 µm	12,2 µm	4,4%	1 g dry powder	Pu1200-01
	20 µm	20,2 µm	3,8%	1 g dry powder	Pu2000-01
	40 µm	37,2 µm	2,0%	1 g dry powder	Pu4000-01
	80 µm	79,7 µm	2,1%	1 g dry powder	Pu8000-01
	150 µm	142,9 µm	3,5%	1 g dry powder	Pu15000-01
220 µm	220,4 µm	3,9%	1 g dry powder	Pu22000-01	



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Particle Count Controls

Particle Count Control Sets - PC Series

Description	Set content	Volumes	Count rate	Nom. mean size	Product number
Particle count controls for validation of counting accuracy of particle counting devices	3 x Suspension 3 x Blank 3 x Certificate	25 mL each	Nominal: 3.000 Part. / mL	10 µm	PC1003a25
				25 µm	PC2503a25
				40 µm	PC4003a25
				70 µm	PC7003a25

PharmaCount™ :Kits and Sets for Pharma Industry Needs - Ph Series

Description	Set content	Volumes	Specifications	Product number
PharmaCount™ 1510 Count control mimicking <USP788>	Kit of particle suspension, blank, certificate	25 mL each	≥ 10 µm: 3.350 - 4.040 Part./ mL	Ph1510-25
	3 x Kit		Ratio ≥ 10 µm / ≥ 15 µm: 1,42 - 3,25	Ph1510a25
PharmaCount™ JPKP Count control mimicking JP XVII 6.07 and KP X 1613	Set of 2 particle suspensions and certificate	50 mL each	≥ 5 µm: 763 – 1.155 Part./ mL Mean particle diameter: 10 µm ± 5%	20010
PharmaCount™ BiCal Size standard and count control for <USP729>	Set of 6 particle suspensions and certificate	25 mL each	5 µm ± 5 %: nom. 400.000 Part./ mL 10 µm ± 5 %: nom. 200.000 Part./ mL	20510
PharmaCount™ TriCal Size standard and count control for 3-point calibration of autodiluters	Set of 6 particle suspensions and certificate	25 mL each	0,8 µm ± 5 %: nom. 1.200.000 Part./ mL 10 µm ± 5 %: nom. 800.000 Part./ mL 5 µm ± 5 %: nom. 400.000 Part./ mL	20825

Count controls for counting in oils - Oi Series

Description	Set content	Volume	Specifications	Product number
Hydraulic oil included Arizona test dust, ISO MTD 2.8	Test suspension in a glass bottle	200 mL	61000 part/ml ≥ 4 µm	O0028-200

Test Particles

Monomodal particle suspensions for general purpose - Te Series

Test particles in aqueous suspension for general purpose Various sizes with monomodal size distribution	Size CV	Volume	Solids	Product number
	≤ 5%	100 mL	10%	6xxxx

Zeta potential control

Description	Set content	Volume	Zeta potential	Nom. mean size	Product number
Suspension of modified polystyrene for reproducibly measuring the zeta potential Negatively charged; 0,02% solids; in a ready-to-use syringe with Luer-lock cap	10 syringes	10 mL	Nom.: - 55 mV	200 nm	71010C
	18 syringes	3,3 mL	Nom.: - 55 mV	200 nm	70318C

Dyed and fluorescent particles

Different sizes, fluorescence properties and colours. Prices, volumes and availability on demand

3rd Party Products - Duke Standards Thermo Scientific

Prices on demand