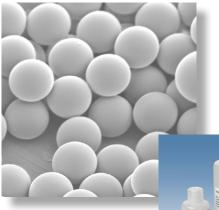
Thermo Scientific Count Controls: Pharm-trol, Count-Cal, Validex, Ezy-Cal

Maximize instrument repeatability, reproducibility and accuracy performance

- Diameters are traceable to the standard meter through the National Institute of Standards and Technology (NIST), providing a simple, convenient method for calibrating particle counting instruments
- Supplied as a low residue aqueous suspension that allows for minimal background interference and precise insight into the dynamic range and calibration of the instrument
- Precisely diluted for immediate use in laser particle counters, minimizing any need for timeconsuming adjustments of the concentration



Count control concentrations are provided with a \pm tolerance to provide confidence in the results





Thermo Scientific Count Controls validate the results of laser particle counters regardless of brand to ensure they are accurately measuring for particulate matter in air, surface or liquid applications where contamination is a concern and requires diligent monitoring.

Pharm-trol

Pharm-Trol has a 15 µm nominal diameter and is packaged in concentrations of 3800 particles/ mL ± 15%. Used by manufacturers of parenteral drugs and ophthalmic solutions who are seeking interim verification of USP <788> and <789> (Particulate Matter in Injections and Particulate Matter in Ophthalmic Solutions).

Count-Cal

Count-Cal products have a nominal range from 2 μ m to 70 μ m in concentrations of 3000 particles per mL \pm 10%. Use in similar applications as Pharm-trol.

Validex

Validex is used for validating the performance of liquid particle counters used for testing drinking water. Each bottle contains a nominal concentration of 1000 particles/mL ± 10% in ultrapure water

Ezy-Cal

Ezy-Cal comes in ready-to-use concentrations of 2000 particles/mL ± 10%. Typical applications include Pharmaceutical, food, beverage, and wastewater.





Applications

• Instrument calibration and validation: particles counters using laser scatter, light scatter, light blockage, imaging, microscopy, and electrical resistance

- Instrument QC: check for instrument problems and shifts in laser function, check the calibration curve shape, etc.
- Monitor for particulate matter: for manufacturers

Specifications

	Pharm-Trol	Count-Cal	Validex	Ezy-Cal			
Composition	Polystyrene	Polystyrene	Polystyrene	Polystyrene			
Diameter (nominal)	15 µm	2 µm to 70 µm	5 µm and 10 µm	2 µm to 70 µm			
Concentration	3800/mL ± 15%	3000/mL ± 10%	1000/mL ± 10%	2000/mL ± 10%			
Density	1.05 g/cm ³	1.05 g/cm ³	1.05 g/cm ³	1.05 g/cm ³			
Index of Refraction	1.59@589 nm (25°C)	1.59@589 nm (25°C)	1.59@589 nm (25°C)	1.59@589 nm (25°C)			
Fill Volume	25 mL	25 mL	500 mL	100 mL			
Additives	Trace amount of surfactant in each product						
Package Includes	Certificate of Calibration and Traceability to NIST, Materal Safety Data Sheet (MSDS)						
Storage and Handling	Unless otherwise stated, refrigerate (2-8 °C) product when not in use but do not freeze. Store upright and keep bottle tightly sealed. Mix product with gentle inversion by hand or vortex mixer.						

Pharm-Trol		Count-Cal			Validex		
Catalog Number	Nominal Diameter	Quantity	Catalog Number	Nominal Diameter	Quantity	Catalog Number	Nominal Diameter
CS-PK	15 µm	6 bottles	CC02-PK	2 µm	6 Bottles	CRS-05	5 µm
CS-BX	15 µm	20 bottles	CC05-PK	5 µm	6 Bottles	CRS-10	10 µm
			CC10-PK	10 µm	6 Bottles	Ezy-Cal	
Pharm-trol and Count-Cal Beads Comply with Global Pharmacopoeia			CC15-PK	15 µm	6 Bottles		
			CC20-PK	20 µm	6 Bottles	Catalog Number	Nominal Diameter
			CC25-PK	25 µm	6 Bottles	6002	2 µm
United States Pharmacopoeia (USP) <729>. <788>, and <1027>		5P) <729>.	CC30-PK	30 µm	6 Bottles	6005	5 µm
		CC50-PK	50 µm	6 Bottles	6010	10 µm	
• China Pharma App. V)	copoeia (Ch. P. 2	010, Volume III,	CC70-PK	70 µm	6 Bottles	6015	15 µm
,		F) 0 0 10				6020	20 µm
• European Phai 2.7.24	rmacopoeia (Ph.	l (M1. Eul.) 2.9.19,				6025	25 µm
						6030	30 µm

• Japan Pharmacopoeia (JP) 6.07ntibodies attached which will bind to the target analyte

thermoscientific.com/particletechnology

© 2014 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

Clinical Diagnostics Particle Technology 46500 Kato Road Fremont, California 94583 U.S.A. 1-800-232-3342 (USA) +1-510-979-5000 (International) info.microparticles@thermofisher.com



50 µm

70 µm

6050

6070