

centrifugation

SuperSpin™ microcentrifuge tubes with easy open caps

ATP

RD

END

LTM

USP

CFR

CE

-80°

122°



- **Ultra high centrifuging to 40,000 x G****
- **Optically clear resin**
- **Resin will not interfere with DNA or PCR***
- **For Phenol/Chloroform vortexing**
- **Reduced Thumb Force**



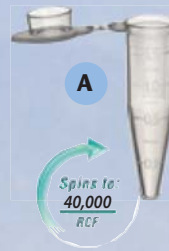
** Maximum G-force can be affected by organic solvents, multiple spin cycles, or low temperature storage. See chart on page 73.

SuperSpin™ tubes feature an extra thick and durable wall that can withstand centrifugation to 40,000 x G*. The ultra clear polypropylene resin gives you a clear view of the pellet as well as correct color rendition. Designed with ergonomic caps and smooth surfaces that make this tube easy to open and reduces the potential for repetitive strain injury. The cap also includes a special 90° hinge that self-aligns the cap and makes it easier to close while one-handed pipetting. Available in 1.5mL sizes that fit all standard and high capacity rotors. Tubes have flat piercable caps and a side writing surface. Autoclavable and freezable. In resealable bags. Graduated.

The ability to extract DNA from samples and then amplify that DNA with reliable results is an important part of lab work. SuperSpin™ tubes were designed with this in mind. They can be trusted to spin at high rates. They can be opened and closed easily many times to add or remove reagents. The interior surfaces are ultra-smooth with low retention. They are clear enough to be used in a spectrophotometer and have no extractables at the wavelength ranges you use to detect DNA. The chart below details the performance of SuperSpin™ tubes in light transmission compared to popular brands. SuperSpin™ tubes are more than twice as effective at transmitting light than most brands of micro centrifuge tubes.

* PCR is a patented process of Hoffman-LaRoche. Use of the PCR process requires a license.

SuperSpin™ tubes were developed by selecting all the best features of existing microcentrifuge tubes and adding the features end users have been asking for. This resulted in tubes with tremendous value. As you can see from the tests below, SuperSpin™ tubes surpass the performance of all major brands of tubes. These are not only tubes that can be spun fast, these are tubes that are pure. Every lot of SuperSpin™ tubes is tested and guaranteed free of RNase and DNase. And since SuperSpin™ tubes are made with our pre-tested medical grade resin, you can use these tubes for DNA extraction without worrying about contaminating your sample.

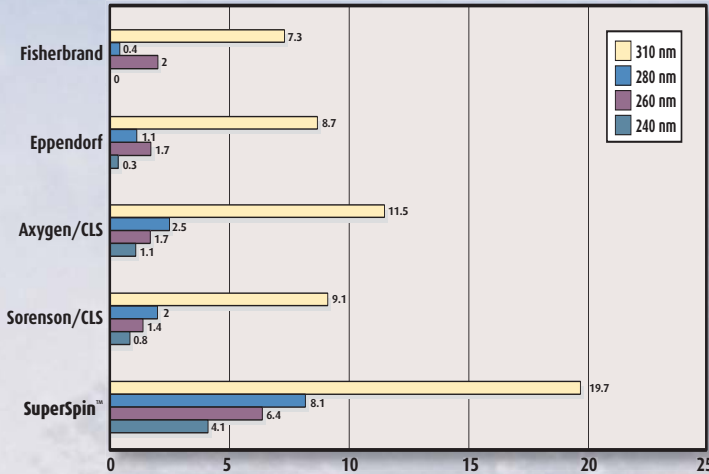


1.5mL SuperSpin™ Polypropylene Microcentrifuge Tubes with flat caps, writing surface, and graduations. Resealable bags.

Rainbow package includes: 100 red, blue, green, yellow, and orange in separate 100 tube bags

Item	Description	Qty/Pk	Sterile	Qty/Cs
3016-870	Natural	500		5,000
3016-874	Red	500		5,000
3016-873	Orange	500		5,000
3016-872	Yellow	500		5,000
3016-878	Green	500		5,000
3016-877	Blue	500		5,000
3016-876	Purple	500		5,000
3016-871	Amber*	500		5,000
3016-879	Assorted	500		5,000

* for light sensitive samples



PCR*/DNA Range Light Transmission

The chart below shows the results of a study comparing the light transmission ability of some popular brands of micro centrifuge tubes in the PCR*/DNA range.

In this study, one tube from each brand was placed into a spectrophotometer. The percent of light transmission at the wavelengths shown was compared to an empty chamber. Samples were from purchased market samples.

SuperSpin™ features:



Microcentrifuge Tube Centrifugation

This study was designed to compare the ability of popular brands of microcentrifuge tubes to withstand centrifugation.

For this study, 12 tubes from every brand were filled with distilled water and placed into a high speed centrifuge. These tubes were sequentially spun at the speeds shown in the chart. Samples were from purchased market samples.

KEY:



Test	Reaction	Brand F	Brand E	Brand A	Brand S	SuperSpin™
30,000 4°C 10 minutes	No change	12	12	12	12	12
	Minor bulging or bending					
	Cracking or minor cracking					
	Major bulge or deformation					
35,000 18°C 10 minutes	No change	12	12	12	12	12
	Minor bulging or bending					
	Cracking or minor cracking					
	Major bulge or deformation					
40,000 18°C 10 minutes	No change	6			1	
	Minor bulging or bending	1			1	12
	Cracking or minor cracking	5	12		9	
	Major bulge or deformation				1	
42,500 18°C 10 minutes	No change	1				
	Minor bulging or bending				2	12
	Cracking or minor cracking	11	12		9	
	Major bulge or deformation				1	
45,000 18°C 10 minutes	No change					12
	Minor bulging or bending	12	8		1	
	Cracking or minor cracking		1			
	Major bulge or deformation		3		11	
50,000 18°C 10 minutes	No change					10
	Minor bulging or bending		10			
	Cracking or minor cracking					1
	Major bulge or deformation		2			1

Extractables of Microcentrifuge Tubes

Procedure: 8 tubes of each brand were filled with 1mL of TE buffer. The tubes were then placed in an incubator at 57°C for 24 hours. After this incubation, the TE from 4 of the 8 tubes from each brand was pooled and light absorbance was measured against reference TE in a Perkin-Elmer Lambda 3B Spectrophotometer.

Brand E	240 nm	260 nm	280 nm	310 nm	SuperSpin™	240 nm	260 nm	280 nm	310 nm
	-0.011	-0.014	-0.014	-0.014		0.001	0.001	-0.005	-0.008
	-0.012	-0.018	-0.018	-0.018		-0.002	-0.003	-0.011	-0.015
	-0.012	-0.016	-0.016	-0.016		-0.001	-0.001	-0.008	-0.012

Brand E

SuperSpin™

* PCR is a patented process of Hoffman-LaRoche. Use of the PCR process requires a license.