

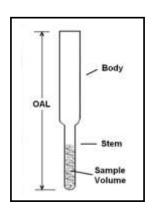
Micro Tubes and Capillary Systems Screw Thread NMR Sample Tubes

Quality and value you can rely on!®

Support data showing applications and sampling techniques along with poster presentations can be found at our website: www.newera-spectro.com. Additional information may be requested at: cs@newera-spectro.com.

Micro NMR Sample Tubes

These tubes are designed for use with reduced sample volumes in cryo/cold probes, as well as micro and all standard 5mm probes. The upper portion (body) of the tube is precision 5mm to fit all spinners and to accommodate all adapters. Coaxial alignment is maintained to give the most stable sample column. All volumes are calculated for 30mm height and are approximate values. Proper filling factors for various probes will vary. Inquire about large quantity prices.



Catalog No.	Sample Stem Volume Length µl mm		OAL	OAL Applications		Price / each		
			mm Applications		1-10	11+		
NE-H5/4	264	60	200	Varian 5mm probes w/wo auto-changer. Bruker and JEOL 5mm probes.	\$37.34	\$35.46		
NE-H5/4-Br	264	60	179	Bruker 5mm probes w/wo auto-changer. JEOL and Varian 5mm probes.	37.34	35.46		
NE-H5/3	130	60	200	Varian 3-5mm probes w/wo auto-changer. Bruker and JEOL 5mm probes.	35.59	33.84		
NE-H5/3-Br	130	60	179	Bruker 5mm probes w/wo auto-changer. JEOL and Varian 5mm probes.	35.59	33.84		
NE-H5/2.5	115	47	165	Bruker 2.5-5mm probes w/wo auto-changer.	35.59	33.84		
NE-H5/2.5-V	115	60	200	Varian 3-5mm probes w/wo auto-changer. Bruker and JEOL 5mm probes.	35.59	33.84		
NE-H5/2.5-V-Br	115	60	179	Bruker 2.5-5mm probes w/wo auto-changer. JEOL 5mm and Varian 5mm probes w/wo auto-changer.	35.59	33.84		
NE-H5/2-V-Br	35	60	179	Bruker 2.5-5mm probes w/wo auto-changer. JEOL 5mm and Varian 3-5mm probes.	35.59	33.84		

All volumes in this flyer are calculated at 30 mm sample height and are for reference, only.

Proper filling factors may vary with the probe.

Ph: 1-800-821-4667 Fax: 1-856-697-8727 cs@newera-spectro.com www.newera-spectro.com

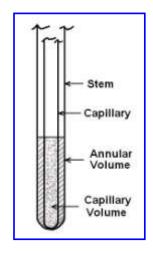
Micro Tube / Capillary Compatibility Chart

All Micro Tubes are designed to fit 5mm probes and/or specific micro probes. Find the combination that will best suit your sample size and probe. Adapters for securing the capillary coaxially in the tube are described on **Page 6**.

The micro tubes and capillaries, made of Type 1, Class A borosilicate glass, have uniform round bottoms and a light fire polish on the open end. They can be used for small sample volumes or for an external reference.

The capillary systems are ideal for the NMR studies of: Isolated Metabolites & Mixtures, Cell Extracts, Biofluids, Cell Suspensions and all other Mass Limited Samples.

Beyond speeding up experiments for very soluble samples, sub-mM concentrations and sample volumes of 15 to 115µl are easily handled by the systems. Samples are placed into disposable capillaries and gradient - shims are done only on the sample itself. Other advantages include the possible reduction of temperature gradient effects on the water signal in a 5mm tube and potentially better resolution on smaller diameter samples. The residual (annular) space between the capillary and the tube can be filled with a lock or reference material as opposed to adding these materials directly into the sample. This not only keeps your sample as concentrated as possible, it allows easy access to multinuclear (¹H, ¹9F, ²H) measurements.



Capillary	1mm OD		1.7mm OD		2mm OD		2.5(A)mm OD		2.5mm OD	
Micro Tube	Cap. Vol.	Anu. Vol.	Cap. Vol.	Anu. Vol.	Cap. Vol.	Anu. Vol.	Cap. Vol.	Anu. Vol.	Cap. Vol.	Anu. Vol.
NE-UP5-7	15µl	391µl	50µl	347µl	35µl	321µl	97µl	268µl	115µl	268µl
NE-H5/4	15	240	50	196	35	170	97	117	115	117
NE-H5/4-Br	15	240	50	196	35	170	97	117	115	117
NE-H5/3	15	106	50	62	35	36	-	-	-	-
NE-H5/3-Br	15	106	50	62	35	36	-	-	-	-
NE-H5/2.5	15	91	50	47	-	-	-	-	-	-
NE-H5/2.5-V	15	91	50	47	-	-	-	-	-	-
NE-H5/2.5-V-Br	15	91	50	47	-	-	-	-	-	-
NE-H5/2-V-Br	15	11	-	-	-	-	-	-	-	-

Capillaries

All capillaries are made of Type 1, Class A borosilicate glass. They have uniform round bottoms and have a light fire polish on the open end

NEW!! 1mm OD capillaries are available with a protective polymer sleeve to reduce breakage and potential loss of a valuable sample. The addition of the sleeve will also allow for repeated use of the Adapter, NE-325-5/1, which is required and is designed for use with NE-262-1-PS and NE-263-1-PS, only. Large quantity prices are available upon request.



Capillary Size		Cat. No.	Price / Pa	ack of 10	Cat. No.	Price / Pack of 10	
mm	30mm Height	75mm Long	Each Pack		100mm Long	Each Pack	
1 x 0.8	15µl	NE-262-1	\$51.60		NE-263-1	\$67.36	
1 x 0.8-PS	15µl	NE-262-1-PS	67.36		NE-263-1-PS	80.43	
1.7 x 1.4	50µl	NE-262-1.7	51.60		NE-263-1.7	67.36	
2 x 1.2	35µl	NE-262-2	51.60		NE-263-2	67.36	
2.5 x 2	97µl	NE-262-2.5-A	51.60		NE-263-2.5A	67.36	
2.5 x 2.2	115µl	NE-262-2.5	51.60		NE-263-2.5	67.36	

Adapters

For use with capillary series NE-262-, NE-263- and precision thin-wall 5mm NMR sample tubes and all Micro Tubes. Made of Teflon with a blind hole to hold and seal the capillary. An internal thread in the top end of the Adapter accommodates the Extraction Rod, NE-341-5.

Catalog Number	For use with these Capillaries	Price Each		
Catalog Number	For use with these Capillaries	Each		
NE-325-5/1	NE-262-1-PS, NE-263-1-PS	\$33.93		
NE-325-5/1.7	NE-262-1.7, NE-263-1.7	33.93		
NE-325-5/2	NE-262-2, NE-263-2	33.93		
NE-325-5/2.5	NE-262-2.5, -2.5-A; NE-263-2.5, -2.5-A	33.93		

Extraction Rod

For use with all 5mm Adapters.

Catalog Number	Description	Price Each		
Catalog Number	Description	Each		
NE-341-5	Extraction Rod, Kel-F, 1/8 x 8", 4-40 thread	\$19.58		

Micro Tube / Capillary Kits

Refer to the Compatibility Chart to select the Micro Tube and Capillary size that would best suit your sample volume and probe. The kits offer an inexpensive way to get started with micro sampling and additional components are all available separately. If you don't find what you need, please inquire.

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Each kit contains one micro tube/sample tube, one adapter, one extraction rod and 5 capillaries.

Catalog Number (Kit)	Micro Tube	Capillary	Capillary OD	Capillary Volume	Annular Volume	Price Each
NE-380-A	NE-H5/3	NE-262-2	2mm	35µI	36µl	\$98.82
NE-380-B	NE-H5/2.5	NE-262-1.7	1.7mm	50µI	47µl	98.82
NE-380-C	NE-UP5-7	NE-262-2.5	2.5mm	115µl	268µl	84.43
NE-380-D	NE-H5/3-Br	NE-262-2	2mm	35µI	36µl	98.82
NE-380-E	NE-H5/2.5-V-Br	NE-262-1.7	1.7mm	50μl	47µl	98.82

All volumes in this flyer are calculated at 30 mm sample height and are for reference, only.

Proper filling factors may vary with the probe.



Screw Thread NMR Sample

Quality and value you can rely on!®

Screw Thread NMR Sample Tubes

The convenience of a screw cap-the security of a Teflon/Glass seal. Each tube includes an open-top cap and a Teflon/Silicone septum. A 22 gauge standard point needle is recommended for a clean puncture. To maintain spinning quality, choose from two lengths (158 and 168mm), to place the threads closest to the spinner. Optional lengths are also available at your request.



Please contact us directly for any additional information.

Why use New Era Screw Thread NMR Sample Tubes

- Convenient and easy to use
- Ideally suited for glove box preparation of air/moisture sensitive samples
- Secure sample stability without permanently flame sealing the tube-a few turns of Parafilm will add extra protection
- Easy access for kinetic studies
- Makes tracking the evolution of hydrolysis products within bioabsorbable materials convenient
- Minimizes solvent evaporation during quantification or compound stability measurements
- Easily pull a slight vacuum on the sample (while using an ultrasonic bath) to remove any air that could affect ROESY data

Catalog Number	Usage, MHz	Tube OD (mm)	Cap Size (mm)	Length (mm)	Glass Type Borosilicate	Price I 1-10	Each 11+
NE-H3-ST-158	500-700	3	8	158	Type 1, Class A	\$29.65	\$26.30
NE-HL5-ST-158	400-500	5	8	158	Type 1, Class B	24.14	22.20
NE-UL5-ST-158	500-700	5	8	158	Type 1, Class B	29.65	26.33
NE-H3-ST-168	500-700	3	8	168	Type 1, Class A	29.65	26.33
NE-HL5-ST-168	400-500	5	8	168	Type 1, Class B	24.14	22.20
NE-HP5-ST-168	400-500	5	8	168	Type 1, Class A	30.77	28.14
NE-UL5-ST-168	500-700	5	8	168	Type 1, Class B	29.65	26.33
NE-UP5-ST-168	500-700	5	8	168	Type 1, Class A	35.40	32.21
NE-H10-ST-178	400-500	10	15	178	Type 1, Class A	37.65	35.77