

Technical Info



ROTI® SampleLyse Tubes

General Information

The ROTI® SampleLyse tubes are used for sample preparation for the extraction of nucleic acids or proteins from various tissues, cells or environmental samples. The screw-in vessels are filled with small beads of different materials and diameters, thus allowing great flexibility in use.

Instructions for use

1. Starting material:

- Up to 20 mg (RNA) or 50 mg (DNA) tissue sample
- Up to 100 mg plant sample
- Up to 100 mg soil
- Pelleted cells of bacteria and/ or fungi
- 200–400 mg (or 200–400 µl of liquid) stool sample
- Size of starting material (depends on consistence):
 - 5 x 5 mm (soft)
 - 2.5 x 2.5 mm (medium hard)
 - 1.5 x 1.5 mm (very hard)

➔ Duration of homogenisation: Depending on the starting material, approx. 2 to 10 minutes.

2. Storage conditions

The ROTI® SampleLyse tubes are shipped and stored at ambient temperature (15 °C to 30 °C). When stored properly, the SampleLyse tubes are stable until the expiry date indicated on the label.

3. Subsequent protein/DNA/RNA extraction

After homogenisation, you can extract your proteins/nucleic acids using your usual purification protocol. Be sure to add the extraction buffer with protease/nuclease inhibitors to your sample quickly.

		ROTI®Samp- leLyse Soft Tissue 1	ROTI®Samp- leLyse Soft Tissue 2	ROTI®Samp- leLyse Soft Tissue 3	ROTI®Samp- leLyse Soft Tissue 4	ROTI®Samp- leLyse Complex	ROTI®Samp- leLyse Hard Tissue	ROTI®Samp- leLyse Plant	ROTI®Samp- leLyse Plant Plus	ROTI®Samp- leLyse Microbes	ROTI®Samp- leLyse Microbes Plus	ROTI®Samp- leLyse Microbes Special
Art. No.		1YK4.1 1YK4.2 1YK4.3 1YK4.4	1YK5.1 1YK5.2 1YK5.3 1YK5.4	1YK6.1 1YK6.2 1YK6.3 1YK6.4	1YK7.1 1YK7.2 1YK7.3 1YK7.4	1YK8.1 1YK8.2 1YK8.3 1YK8.4	1YK9.1 1YK9.2 1YK9.3	1YKA.1 1YKA.2 1YKA.3 1YKA.4	1YKC.1 1YKC.2 1YKC.3 1YKC.4	1YKE.1 1YKE.2 1YKE.3 1YKE.4	1YKH.1 1YKH.2 1YKH.3 1YKH.4	1YKK.1 1YKK.2 1YKK.3 1YKK.4
Sample volume and Bead material	Sample volume [ml]	0.5	0.5	2.0	2.0	2.0	2.0	2.0	0.5	2.0	2.0	2.0
	Ceramic [mm]	1.4-1.6	2.4-2.8	1.4-1.6	2.4-2.8	1.4-1.6				1.4-1.6	0.4-0.6	0.4-0.6, 1.4-1.6
	Glass [µm]									90-150		
	Steel [mm]					5x3.5	Mandrel	5x4.7	8x3.5	1x3.5		
Plantmaterial	Blossom	✓	✓	✓	✓	✓						
	Leaves	✓	✓	✓	✓	✓		✓	✓			
	Stem					✓		✓	✓			
	Roots					✓		✓	✓			
	Wooden plant parts						✓	✓	✓			
	Seeds						✓	✓	✓			
	Corn						✓	✓	✓			
Human and animal tissue	Brain	✓	✓	✓	✓							
	Liver	✓	✓	✓	✓							
	Kidney		✓		✓							
	Lung					✓			✓			
	Heart/Muscle					✓			✓			
	Hair						✓					
	Fingernail						✓					
	Bone						✓					
Microorganisms	Yeast									✓	✓	✓
	Fungi									✓	✓	✓
	Algae									✓	✓	✓
	Bacteria									✓	✓	✓
	Spores											✓
En- viron- mental	Soil					✓						✓
	Feces					✓					✓	✓

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