

# Biotage® Lysera

## Bead Mill Homogenizer

### Ensuring Highest Recoveries in Problematic Matrices for Your Sample Preparation

The Biotage® Lysera offers a solution to those customers needing to extract analytes from difficult matrices. The design offers a quick, easy, and effective approach without jeopardizing sample integrity.

The system is specifically designed for the grinding, lysing and homogenization of samples prior to any form of sample extraction. Using sample tubes pre-filled with a variety of beads, the Lysera vigorously and uniformly shakes the tubes providing an efficient, consistent, high-yield and quality homogenization usually in less than 40 seconds. Samples are enclosed in individual vessels to prevent cross contamination and can accommodate dry or wet homogenization of samples from milligram to gram quantities.

Available with a wide range of accessories the Lysera enables processing of samples in volumes ranging from 0.5 mL to 50 mL. The optional Cryo Cooling Unit is designed to prevent the increase of sample temperature during the homogenization process.

### Features

- » Optimized tube motion with speeds up to 8 m/s
- » Simultaneously homogenize up to 24 samples per cycle
- » Convenient front-loading tube holder position for ease of use and optimal bead/sample interactions
- » Interlocking Safety Lid
- » Broad speed range for any type of sample processing
- » High reproducibility: number of cycles, time, speed, dwell/pause
- » No Cool-down required between runs: process hundreds of samples per day
- » 99 programmable memory settings
- » Disposable tubes ensure no threat of cross-contamination or sample degradation



### Specifications

<b>Processing Range</b>	25 µL to 50 mL
<b>Electrical Supply</b>	100–230 VAC 50–60 Hz
<b>Fuses</b>	6A
<b>Dimensions</b>	(W x D x H): 394 x 432 x 330 mm (15.5" x 17" x 13") The height with the lid open is 610 mm (24")
<b>Weight</b>	29 kg (64 lbs.)
<b>Certifications</b>	CE marked and CSA, TUV compliant
<b>Run Time</b>	1 second—9:59 minutes
<b>Number of Programs</b>	99 Saved Programs
<b>Number of Cycles</b>	1–10
<b>Performance Range</b>	0.8m/s—8m/s by 0.15m/s increments

The unit can be used in a cold room, but it must be stored in a dry area at a temperature ranging from 0° C/32° F to 50° C/122° F

## Bead Mill Accessories



### 96 Strip Well Tube Carriage Kit (Part Number 19-010-330)

- » 96 x 1.2 mL strip well tubes
- » Includes Finger Plate and tube carriage



### 1.5 mL Tube Carriage Kit (Part Number 19-010-310S)

- » 24 x 1.5 mL microtubes
- » Includes Lysera Finger Plate and tube carriage



### 2 mL Tube Carriage Kit (Part Number 19-010-310)

- » 24 x 2 mL or 24 x 0.5 mL skirted tubes
- » Includes Lysera Finger Plate and tube carriage



### 7 mL Tube Carriage Kit (Part Number 19-345-007)

- » 12 x 7 mL tubes
- » Includes lock ring and tube carriage



### 15 mL Tube Carriage Kit (Part Number 19-345-015)

- » 3 x 15 mL tubes
- » Patent pending snap-in tube carriage for 15 mL samples; kit includes lock ring and tube carriage



### 30 mL Tube Carriage Kit (Part Number 19-345-035)

- » 6 x 30 mL tubes
- » Patent pending snap-in tube carriage for 30 mL samples; kit includes lock ring and tube carriage



### 50 mL Tube Carriage Kit (Part Number 19-345-050)

- » 3 x 50 mL tubes
- » Patent pending snap-in tube carriage for 50 mL samples; kit includes lock ring and tube carriage

## Beads and Tubes

Biotage offers a selection of beads and tubes for ultimate versatility.

A variety of bead media are available for different sample types. Biotage's various tube sizes fit a range of sample volumes. With the Lysera's vigorous and uniform shaking, all samples are consistently homogenized.



## Tube Selection Guide

Tube Size	Volume Range						
	20 $\mu$ L	100 $\mu$ L	1 mL	5 mL	15 mL	30 mL	50 mL
0.5 mL	20 $\mu$ L–300 $\mu$ L						
1.2 mL Stripwell	20 $\mu$ L–800 $\mu$ L						
1.5 mL	20 $\mu$ L–1.5 mL						
2 mL		100 $\mu$ L–1.8 mL					
7 mL			1 mL–5 mL				
15 mL				5 mL–15 mL			
30 mL				5 mL–30 mL			
50 mL				5 mL–50 mL			

## Ordering Information

Part Number	Description	Qty	Part Number	Description	Qty
<b>1.5 and 2 mL Pre-Filled Bead Mill Tubes</b>			<b>15 mL Pre-Filled Bead Mill Tubes</b>		
19-610	Soft Tissue Grinding Mix 1.5 mL	50	19-6158	Hard Tissue Homogenizing Mix (15 mL Tubes)	50
19-617	Soft Tissue Homogenizing Mix 1.5 mL	50	<b>30 mL Pre-Filled Bead Mill Tubes</b>		
19-618	Hard Tissue Homogenizing Mix 1.5 mL	50	19-6350	Hard Tissue Grinding Mix (30 mL Tubes)	50
19-620	Hard Tissue Grinding Mix (2 mL Reinforced Tubes) Nuclease Free	50	19-6357	Soft Tissue Homogenizing Mix (30 mL Tubes)	50
19-621	Micro-Organism Lysing Mix (2 mL Tubes)	50	19-6358	Hard Tissue Homogenizing Mix (30 mL Tubes)	50
19-622	Tough Micro-Organism Lysing Mix (2 mL Tubes) Nuclease Free	50	<b>50 mL Pre-Filled Bead Mill Tubes</b>		
19-623	Small Volume Micro-Organism Lysing Mix (2 mL Tubes with 0.5 mL insert)	50	19-6508	Hard Tissue Homogenizing Mix (50 mL Tubes)	50
19-624	Hard and Fibrous Tissue Mix (2 mL Tubes)	50	<b>Bulk Beads and Tubes</b>		
19-625	Small Volume Soil Homogenizing Mix (2 mL Tubes with 0.5 mL insert)	50	19-640	Bulk 2.4 mm Metal Beads	500 g
19-626	Soft Tissue Homogenizing Mix (2 mL Tubes)	50	19-642	Bulk 0.5 mm Glass Beads	400 g
19-627	Soft Tissue Homogenizing Mix (2 mL Tubes) Nuclease Free	50	19-645	Bulk 1.4 mm Ceramic Beads	325 g
19-628	Hard Tissue Homogenizing Mix (2 mL Reinforced Tubes) Nuclease Free	50	19-646	Bulk 2.8 mm Ceramic Beads	325 g
19-628S	Hard Tissue Homogenizing Mix (2 mL Reinforced Tubes) Micro DNA Free	50	19-696	1.2 mL 96 Strip Well Tubes	10
<b>7 mL Pre-Filled Bead Mill Tubes</b>			19-649	Bulk 2 mL Reinforced Tubes with screw caps	1000
19-670	Hard Tissue Grinding Mix (7 mL Tubes)	50	19-651	Bulk 7 mL Reinforced Tubes with screw caps	1000
19-677	Soft Tissue Homogenizing Mix (7 mL Tubes)	50	19-6615	Bulk 15 mL Tubes with leak proof screw caps	100
19-678	Hard Tissue Homogenizing Mix (7 mL Tubes)	50	19-6635	Bulk 30 mL Tubes with leak proof screw caps	100
			19-6650	Bulk 50 mL Tubes with leak proof screw caps	100

## Ordering Information

Part Number	Description	Qty
<b>Bead Mill and Accessories</b>		
<b>19-060</b>	Biotage® Lysera Includes drive unit, user manual; 1 year warranty	1
<b>19-010-330</b>	96 Strip Well Tube Carriage Kit » 96 x 1.2 mL strip well tubes » Includes finger plate and tube carriage	1
<b>19-010-310S</b>	1.5 mL Tube Carriage Kit » 24 x 1.5 mL microtubes » Includes Lysera finger plate and tube carriage	1
<b>19-010-310</b>	2 mL Tube Carriage Kit 24 x 1.5 mL microtubes » 24 x 2 mL or 24 x 0.5 mL skirted tubes » Includes Lysera finger plate and tube carriage	1
<b>19-010-007</b>	7 mL Tube Carriage Kit » 12 x 7 mL tubes » Includes lock ring and tube carriage	1
<b>19-345-015</b>	15 mL Tube Carriage Kit » 3 x 15 mL tubes » Patent pending snap-in tube carriage for 15 mL samples; kit includes lock ring and tube carriage	1
<b>19-345-035</b>	30 mL Tube Carriage Kit 25 µm/0.2 µm » 6 x 30 mL tubes » Patent pending snap-in tube carriage for 30 mL samples; kit includes lock ring and tube carriage	1
<b>19-345-050</b>	50 mL Tube Carriage Kit » 3 x 50 mL tubes » Patent pending snap-in tube carriage for 50 mL samples; kit includes lock ring and tube carriage	1



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