

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

Processing Range	25 µL to 50 mL
Electrical Supply	100–230 VAC 50–60 Hz
Fuses	6A
Dimensions	(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")
Weight	29 kg (64 lbs.)
Certifications	CE marked and CSA, TUV compliant
Run Time	1 second—9:59 minutes
Number of Programs	99 Saved Programs
Number of Cycles	1–10
Performance Range	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 tube sizes fit a range of sample volumes. With the Lysera system's vigorous and uniform shaking, all samples are consistently homogenized.



Tube Selection Guide

Tube Size	Volume Range					
	20 μ L	100 μ L	1 mL	5 mL	15 mL	30 mL
0.5 mL	20 μ L–300 μ L					
1.2 mL Stripwell	20 μ L–800 μ L					
1.5 mL	20 μ L–1.5 mL					
2 mL		100 μ 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.
1.5 and 2 mL Pre-Filled Bead Mill Tubes			15 mL Pre-Filled Bead Mill Tubes		
19-610	Hard 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	30 mL Pre-Filled Bead Mill Tubes		
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	50 mL Pre-Filled Bead Mill Tubes		
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	Bulk Beads and Tubes		
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
7 mL Pre-Filled Bead Mill Tubes			19-696	1.2 mL 96 Strip Well Tubes	10
19-670	Hard Tissue Grinding Mix (7 mL Tubes)	50	19-649	Bulk 2 mL Reinforced Tubes with screw caps	1000
19-677	Soft Tissue Homogenizing Mix (7 mL Tubes)	50	19-651	Bulk 7 mL Reinforced Tubes with screw caps	1000
19-678	Hard Tissue Homogenizing Mix (7 mL Tubes)	50	19-6615	Bulk 15 mL Tubes with leak proof screw caps	100
			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.
Bead Mill and Accessories		
19-060	Biotage® Lysera Includes drive unit, user manual; 1 year warranty	1
19-010-330	96 Strip Well Tube Carriage Kit » 96 x 1.2 mL strip well tubes » Includes finger plate and tube carriage	1
19-010-310S	1.5 mL Tube Carriage Kit » 24 x 1.5 mL microtubes » Includes Lysera finger plate and tube carriage	1
19-010-310	2 mL Tube Carriage Kit » 24 x 2 mL or 24 x 0.5 mL skirted tubes » Includes Lysera finger plate and tube carriage	1
19-010-007	7 mL Tube Carriage Kit » 12 x 7 mL tubes » Includes lock ring and tube carriage	1
19-345-015	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
19-345-035	30 mL Tube Carriage Kit » 6 x 30 mL tubes » Patent pending snap-in tube carriage for 30 mL samples; kit includes lock ring and tube carriage	1
19-345-050	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
19-8005B	Cryo Cooling Unit	1



EUROPE

Main Office: +46 18 565900
Toll Free: +800 18 565710
Fax: +46 18 591922
Order Tel: +46 18 565710
Order Fax: +46 18 565705
order@biotage.com
Support Tel: +46 18 56 59 11
Support Fax: + 46 18 56 57 11
eu-1-pointsupport@biotage.com

NORTH & LATIN AMERICA

Main Office: +1 704 654 4900
Toll Free: +1 800 446 4752
Fax: +1 704 654 4917
Order Tel: +1 704 654 4900
Order Fax: +1 434 296 8217
ordermailbox@biotage.com
Support Tel: +1 800 446 4752
Outside US: +1 704 654 4900
us-1-pointsupport@biotage.com

JAPAN

Tel: +81 3 5627 3123
Fax: +81 3 5627 3121
jp_order@biotage.com
jp-1-pointsupport@biotage.com

CHINA

Tel: +86 21 2898 6655
Fax: +86 21 2898 6153
cn_order@biotage.com
cn-1-pointsupport@biotage.com

KOREA

Tel: + 82 31 706 8500
Fax: + 82 31 706 8510
korea_info@biotage.com

Distributors in other regions are
listed on www.biotage.com

Part Number: PPS453.V.2

© 2017 Biotage. All rights reserved. No material may be reproduced or published without the written permission of Biotage. Information in this document is subject to change without notice and does not represent any commitment from Biotage. E&OE. A list of all trademarks owned by Biotage AB is available at www.biotage.com/legal. Other product and company names mentioned herein may be trademarks or registered trademarks and/or service marks of their respective owners, and are used only for explanation and to the owners' benefit, without intent to infringe.