

Tissue Grinders

Designed for Tissue Homogenization and Cellular Separation



There are many methods available to breakdown and separate tissue and cells. Mortar and pestle tissue grinders are commonly used due to their gentle grinding action. This helps preserve large molecules, organelles, cells and viruses. DWK manufactures tissue grinders in different sizes, materials and configurations to fit most laboratory applications. Capacities are available from 0.1ml to 55ml and materials consist of glass, PTFE, and stainless steel.

Tissue Grinder Types and Applications

Tapered Tissue Grinders — Ideal for tough tissue such as heart, lung, muscle, and connective tissue. These glass-on-glass grinders feature a long tapered design to maximize grinding efficiency.

Potter-Elvehjem Tissue Grinders — A good general purpose tissue grinder. This is typically used with soft tissue such as brain, liver and to break down tissue for primary cell culture.

Tenbroeck Tissue Grinders — This tissue grinder has a hollow handle to hold ice or water to cool the sample. This feature makes it useful for preserving delicate cells such as liver, intestines or heart cells. In addition to fragile cells, this grinder is used for the isolation of large molecules from the cell.





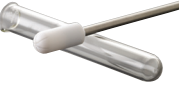





Dounce Tissue Grinders — One of the most popular tissue grinders, it is typically used to open cells to release molecules, organelles, or viruses. The Dounce tissue grinder is usually used on cell pellets rather than excised tissue samples.

All tissue grinders are manufactured from WHEATON 33 low extractable borosilicate glass that conforms to USP Type I and ASTM E-438 Type I, Class A requirements and replacement parts can be purchased separately.



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Tissue Grinders

Type	Picture	Materials	Tissue	Notes	Catalog No.	Mortar OD x Length (mm)	Overall Length (mm)	Size (mL)	Qty/Case
Dounce		<ul style="list-style-type: none"> All glass WHEATON 33 low extractable borosilicate glass Supplied with a tight fitting and loose fitting pestles 	<ul style="list-style-type: none"> For Soft Tissue Retains nuclei, mitochondria and organelles 	<ul style="list-style-type: none"> Autoclavable 2 types of pestles Mortar has a large reservoir and pouring lip to make decanting easy Ball shaped pestle leaves cell nuclei intact in soft tissue 	357538	11 x 48	125	1	2
					357542	13 x 82	175	7	2
					357544	22 x 94	210	15	2
					357546	32 x 140	285	40	2
Dounce Dura Grind®		<ul style="list-style-type: none"> 316 stainless steel Plastic handle 	<ul style="list-style-type: none"> For Soft Tissue Retains nuclei, mitochondria and organelles 	<ul style="list-style-type: none"> Not autoclavable Dounce style mortar and pestle 	357572	35 x 14	171	7	1
					357574	35 x 14	171	15	1
					357576	44 x 114	171	40	1
Potter-Elvehjem		<ul style="list-style-type: none"> PTFE pestle Stainless steel handle WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> Soft Tissue such as brain or liver samples 	<ul style="list-style-type: none"> Autoclavable Available motorized attachment, WHEATON Part No. 903475 	357844	4 x 65	110	0.1	2
					358029	11 x 45	203	2	2
					358034	13 x 66	219	5	2
					358039	16 x 74	219	10	2
					358044	19 x 84	219	15	2
					358049	24 x 118	266	30	2
					358054	30 x 130	266	55	2
Potter-Elvehjem Safe Grind		<ul style="list-style-type: none"> PTFE pestle Stainless steel handle WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> Soft Tissue such as brain or liver samples 	<ul style="list-style-type: none"> Autoclavable Exterior plastic coated glass for greater safety during power homogenization 	358003	11 x 45	203	2	2
					358005	13 x 66	219	5	2
					358007	16 x 74	219	10	2
					358009	19 x 84	219	15	2
					358011	24 x 118	266	30	2
					358013	30 x 130	266	55	2
Potter-Elvehjem with Radial serrations		<ul style="list-style-type: none"> PTFE pestle Stainless steel handle WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> Soft to Fibrous Tissue 	<ul style="list-style-type: none"> Autoclavable Serrated pestle design for more efficient dispersion Available motorized attachment, WHEATON Part No. 903475 	357969	11 x 45	203	2	2
					357974	13 x 66	219	5	2
					357979	16 x 74	219	10	2
					357984	19 x 84	219	15	2
					357989	24 x 118	266	30	2
					357994	30 x 130	266	55	2
Tenboreck		<ul style="list-style-type: none"> WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> Liver, intestine and heart For enzyme and protein collection 	<ul style="list-style-type: none"> Autoclavable Handle can be packed with ice or water to preserve sample during operation Built in pouring lip for easy decanting 	357421	11 x 48	140	1	2
					357422	11 x 50	140	2	2
					357424	16 x 82	190	7	2
					357426	22 x 94	250	15	2
					357428	32 x 140	320	40	2
Tapered (Dual)		<ul style="list-style-type: none"> WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> For Tough Tissue Samples Muscle, skin, heart and intestine 	<ul style="list-style-type: none"> Autoclavable 	358103	11 x 49	130	1	1
					358107	11 x 86	220	3	1
					358111	13 x 93	220	5	1
					358115	18 x 114	240	15	1
Tapered PTFE		<ul style="list-style-type: none"> Tapered PTFE pestle Stainless steel handle WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> Soft Tissue such as brain or liver samples 	<ul style="list-style-type: none"> Autoclavable Available motorized attachment, WHEATON Part No. 903475 	358133	11 x 49	130	1	1
					358137	11 x 86	220	3	1
					358141	13 x 93	220	5	1
					358145	18 x 114	240	15	1
Disposable Micro Tissue Grinder		<ul style="list-style-type: none"> WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> Disposable to eliminate cross contamination High sample recovery 	<ul style="list-style-type: none"> Disposable Can be used with radioactive samples 	357860	8 x 44	88	0.75	25
Micro Tissue Grinder Kit		<ul style="list-style-type: none"> WHEATON 33 low extractable borosilicate glass 	<ul style="list-style-type: none"> For most tissue types 	<ul style="list-style-type: none"> Autoclavable Comes with 7 assorted micro tissue grinders 	358204	—	—	—	1