





MGIEasy Tissue Storage Reagent

This product can effectively preserve isolated animal tissue samples in the short term to maintain the cell activity and stabilize the gene expression levels. The samples can be used for downstream applications such as single cell RNA sequencing.



-  **Maintain the cell activity of fresh tissue stably at 2-8°C within 72h**
-  **Quickly penetrate fresh tissue to reduce the changes of cell gene expression after ex vivo**
-  **Solve the problem of batch differences in processing multiple samples which improve the flexibility of experiments;**
-  **Suitable for single cell RNA sequencing**

Product Information

Product Name	MGIEasy Tissue Storage Reagent
Model	TSR-100
Product Specification	100 mL/bottle
Product Expiration Date	2-8° C for up to 12 months
Product transport condition	2-8° C for up to 15 days
Sample transport condition	2-8° C for up to 72 hours
Adaptable sample types	Fresh animal tissue
Adaptable application	Single cell RNA sequencing

Order Information

Cat. No.	Name	Specification	Model
940-001755-00	MGIEasy Tissue Storage Reagent	100 mL/bottle	TSR-100

Performance

- Maintain the cell viability of various mouse tissues at 2-8°C for up to 72 hours
- Maintain stable gene expression level in MGIEasy tissue storage reagent

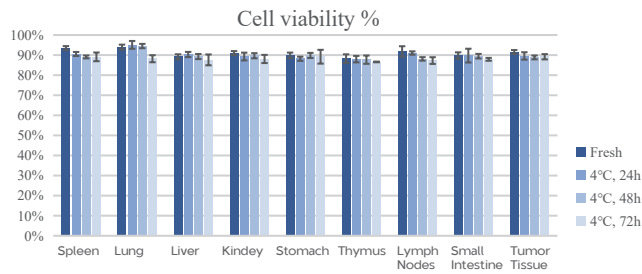
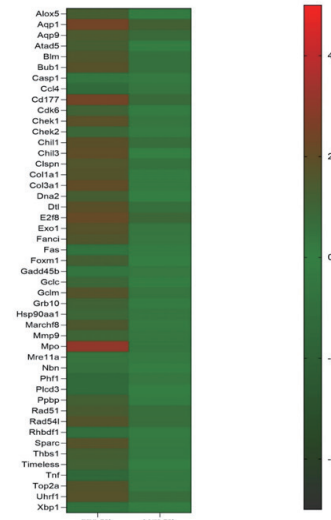


Fig.1. Various mouse tissue samples were stored by MGIEasy tissue storage reagent at 4°C for 24 h, 48 h and 72 h, then dissociated and calculated the cell viability of single cell. The cell viability of single cell was just slightly reduced while compared with the fresh tissue.

Table 1 Mouse spleen tissues were stored by MGIEasy tissue storage reagent at 4°C for 0h, 24h, 48h, and 72h, then dissociated to single cell and calculated the cell viability, live cell count and cell clumping rate.

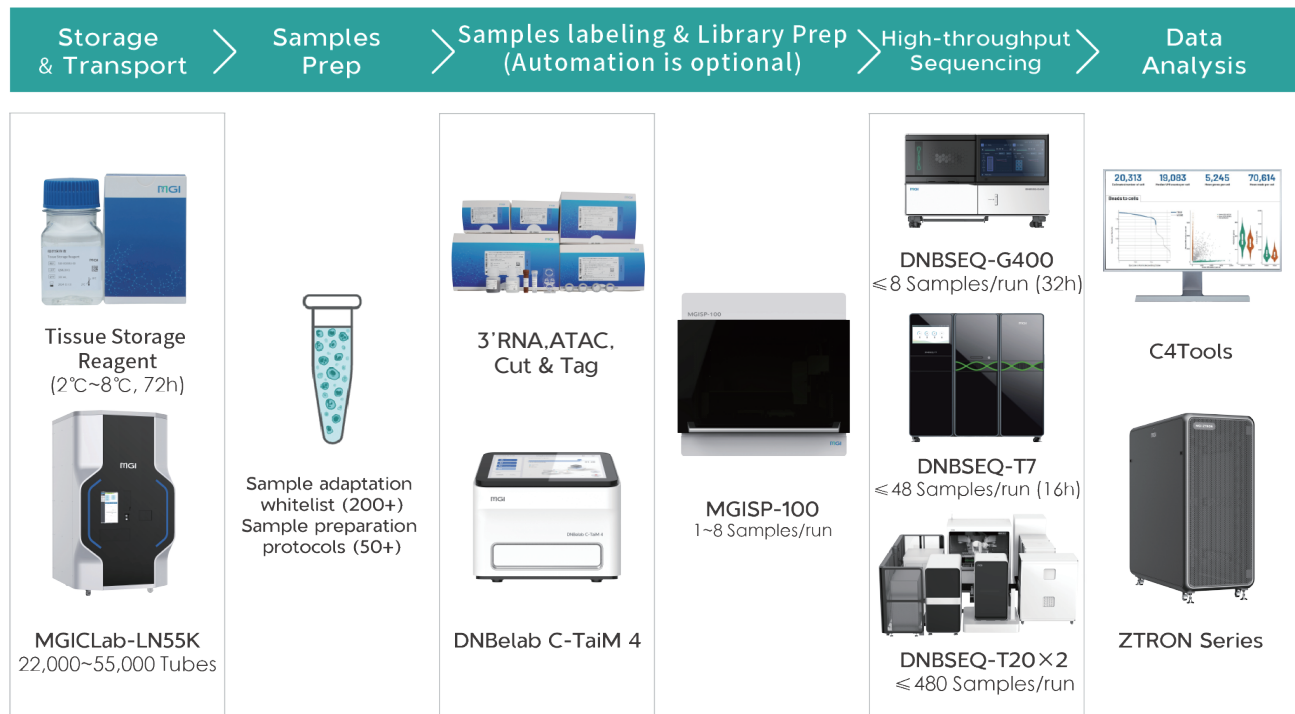
	Cell Viability %	Live Cell Count (cells/mL)	Cell Clumping Rate %
0h	93.52%	2.57E+07	1.84%
24h	90.56%	1.89E+07	2.01%
48h	89.09%	1.74E+07	1.75%
72h	89.13%	1.35E+07	1.28%



Stress-related genes: Casp1, Chek1, Fas, Tnf, et al.
DNA damage-related genes: Atad5, Bln, Cdk6, Chek1, et al.
Immune-related genes: Cd177, March8, Timeless, et al.

Fig.2. Gene expression from fresh and stored mouse spleen tissues in PBS and MGIEasy tissue storage reagent. RNA was isolated from fresh and stored tissues and differential gene expression was analyzed. The heatmap shows the express differences between fresh tissue and stored tissues in PBS and MGIEasy tissue storage reagent for 72 hours.

- One-stop product portfolio of single cell sequencing



MG Tech Co., Ltd.

Building 11, Beishan Industrial Zone, Yantian District, Shenzhen, China

+86-4000-688-114

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en.mgi-tech.com

MGI-service@mgi-tech.com

