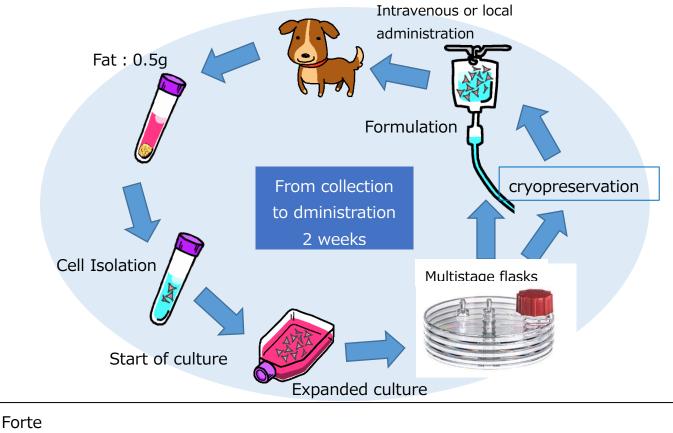
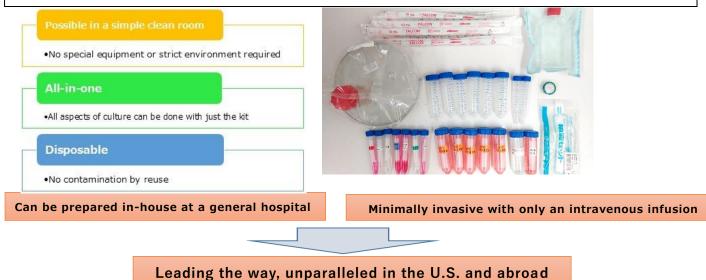


Culture kit for canine adipose stem cells (ADSCs)

ADSC Expansion Culture Kit is a kit for conveniently culturing ADSCs from adherent cells isolated from 0.5 g of fat.





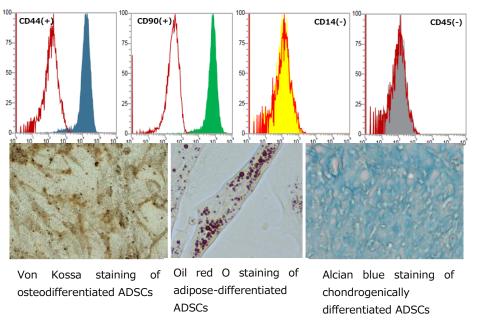
Composition

This all-in-one culture kit includes everything needed for a single treatment from culture to administration, including flasks, culture media, and pipettes.

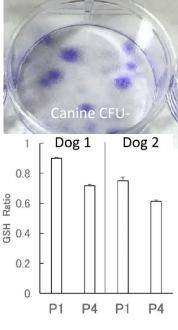
Application Examples

Cultured cells exhibited characteristics of ADSC morphology and colony formation was confirmed by CFU-F assay. Surface markers expressed were confirmed by flow cytometry analysis. In addition, tri-differentiation potential (osteogenesis, chondrogenesis, and adipogenesis) was confirmed by staining for each differentiation potential.

0.5 g of fat was collected from a healthy dog. The cells were cultured for 2 weeks. The average number of cells recovered was 2×107. Survival rate is over 98%.







Quality of ADSC

Quality was evaluated by quantification of glutathione (GSH), the most abundant

non-protein thiol that functions as an antioxidant and redox regulator; P1 showed higher GSH values than P4, indicating that ADSCs with fewer passages are higher in quality.

Literature and Presentations

1) Tohya S, Mitani K, Ito Y, Inaba T, Okada K. (J-ARM Inc.), QOL evaluation by owners in canine cancer immunotherapy and fat stem cell therapy, 160th Annual Meeting of the Japanese Society of Veterinary Science 2017.

2) Ito Y (J-ARM Inc), On Cell Culture (Culture Techniques for Activated Lymphocytes and Dendritic Cells), The 160th Annual Meeting of the Japanese Veterinary Medical Association 2017.

3) Mitani K¹, Ito Y¹, Takene Y¹, Jeong EM², Kang HS², Kim IG³, Inaba T^{1,4}, Hatoya S⁴, Sugiura K⁴ (¹ J-ARM. ²Cell2in, Korea. ³ Seoul National University, Korea. ⁴ Osaka Prefecture University), TISSUE ENGINEERING & REGENERATIVE MEDECINE Exposition 2018.
4) Mitani K¹, Ito Y¹, Takene Y¹, Shin J², Jeong EM³, Kang HS², Kim IG³, Inaba T^{1,4}, Hatoya S⁴, Sugiura K⁴ (¹ J-ARM Corporation, ² Cell2in (Korea), ³ Seoul National University (Korea), ⁴ Osaka Prefecture University), Dog and cat. Mesenchymal Stem Cell Isolation and Quality Assessment by Monitoring Glutathione Content, Japanese Society for Veterinary Regenerative Medicine 14th Annual Meeting 2019.

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