



**TERUMO CORPORATION**

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Date: September 8, 2016

Dear Valued Customer,

We are sending you this letter to inform you that, firstly, the PROGREAT® Microcatheter manufactured by Terumo Corporation has been available in the global market since 2001, and secondly, that Terumo has tested the PROGREAT Microcatheter to confirm its chemical resistance performance against dimethyl sulfoxide (DMSO) organic solvent.

PROGREAT Microcatheter successfully passed all of the following tests related to the chemical resistance performance of the catheter shaft and the catheter hub: (1) tensile strength of the microcatheter tube, (2) tensile strength of the connection between the hub and microcatheter shaft, (3) maximum burst pressure through the inner lumen of the microcatheter, and (4) microcatheter air leakage. Before performing these tests, all of the PROGREAT Microcatheters tested were exposed to DMSO under controlled conditions. DMSO (4–5ml) was injected into the lumen, and both the distal and proximal segments of the microcatheter were immersed in DMSO for specific periods of time replicating clinical use. There was no significant difference in the results obtained from the chemical resistance tests between the microcatheter samples that were exposed to DMSO and the control samples that were not exposed to the solvent.

This letter is therefore provided to detail the test methods and results confirming the chemical resistance performance of PROGREAT Microcatheter against DMSO.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Tomoyuki IIDA", written over a horizontal line.

Tomoyuki IIDA

Management Representative, Department of Quality Assurance