**Title: 5Azacytidine incorporated Polycaprolactone - Gelatin nanoscaffold for cardiomyocyte differentiation**

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|  | PCL-Gelatin (Figure 5a) | PCL-Gelatin-Aza1 (Figure 5b) | PCL-Gelatin- Aza2 (Figure 5c) | Assignments |
| Wavenumber cm-1 | 2935 | 2935 | 2935 | asymmetric (CH2 stretching), |
| Wavenumber cm-1 | 2866 | 2853 | 2853 | symmetric CH2stretching |
| Wavenumber cm-1 | 1718 | 1713 | 1713 | carbonyl stretching |
| Wavenumber cm-1 | 1280 | 1230 | 1230 | asymmetric C–O–C stretching |
| Wavenumber cm-1 | 1098 | 1104 | 1104 | symmetric C-O-C stretching |
| Wavenumber cm-1 | 1468 | 1462 | 1462 | N–H bending  (amide II) |

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Table S1: Vibrational band assignments of Scaffolds PCL-Gelatin (a), PCL-Gelatin-Aza1 (b), PCL-Gelatin-Aza2 (c)

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Scheme 1 : Scaffold design



Figure S1 Histogram depicting the variation in fibre width a) PCL-Gelatin, b) PCL-Gelatin-5-Aza1 and c) PCL-Gelatin-5Aza2