

Supporting Information

Table S1 Primer sequences for the related genes

Gene	Primer sequences (5' to 3')
R-VEGF-F	TGCGGATCAAACCTCACCA
R-VEGF-R	CAGGGATTTTTCTTGTCTTGCT
R-GATA4-F	ACGTTCTCAGTCAGTGCATG
R-GATA4-R	CAGGTCCGTGCAGGAATTTG
R-cTnT -F	GGGCTGAACAGCAGCGTAT
R-cTnT-R	CCACTCTCCGCTCTGTCTG
R-GAPDH -F	GGCATCGTGGAAGGGCTCAT
R-GAPDH-R	GGGATGACCTTGCCCACAG
H-cTnT -F	GGGGTTACATCCAGAAGACAG
H-cTnT -R	CACAGCTCCTTGGCCTTCTC
H-VEGF-F	TATGCGGATCAAACCTCACCA
H-VEGF-R	CACAGGGATTTTTCTTGTCTTGCT
H-GAPDH -F	GGCATCGTGGAAGGGCTCAT
H-GAPDH-R	GGGATGACCTTGCCCACAG
R-Cx43-F	GAGTCGCATTGGGTGAACATAGA
R-Cx43-R	GTAGACCAGGGAAGCTTACCTG

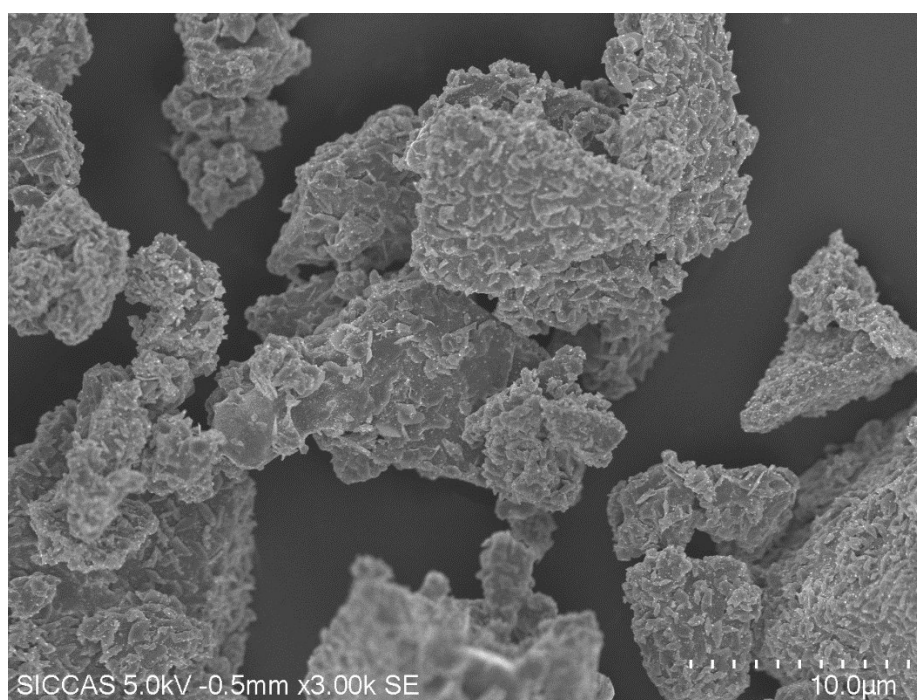


Fig S1 The morphology of BG

Table S2 The chemical composition of BG obtained by ICP-OES

Composition (%)	Theoretical value	Detection value
SiO ₂	45.0	44.7
Na ₂ O	24.5	24.4
CaO	24.5	24.8
P ₂ O ₅	6.0	5.7