**Endophytic fungus, *Chaetomium globosum,* associated with marine green alga, a new source of Chrysin**

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**Supplementary Table 1 (ST1): List of TLC solvent systems used to optimize the best separation of fungal chrysin**

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| --- | --- |
| **Chromatographic system No.** |  **Solvents, ratio** |
| 1 | toluene:ethylacetate:formic acid, 36:12:5 |
| 2 | cyclohexane:ethylacetate:formic acid, 30:15:5 |
| 3 | toluene:ethylacetate:acetic acid, 36:12:5 |
| 4 | cyclohexane:ethylacetate:acetic acid, 31:14:5 |
| 5 | n-hexane:ethylacetate:formic acid, 31:14:5 |
| 6 | toluene:acetone:formic acid, 38:10:5 |
| 7 | n-hexane:ethylacetate:acetic acid, 31:14:5 |
| 8 | petroleum ether:ethylacetate:formic acid, 30:15:5 |
| 9 | carbon tetrachloride:acetone:formic acid, 35:10:5 |



**Supplementary Figure 1 (S1):** FACS profiles of MCF-7 cells treated with CGEE after 24 h analyzed by PI live/dead assay, distribution of cells in cell cycle phases, loss of MMP and ROS level. Flow cytometry data were quantified using the CytExpert 2.0 software.



**Supplementary Figure 2 (S2):** Comparative analysis of UV spectrum of purified compound and SChr. Λmax of 252 nm and 310 nm was observed for both the samples



**Supplementary Figure 3 (S3):** FACS profiles of MCF-7 cells treated with 72 h of FChr and SChr analyzed by PI live/dead assay, distribution of cells in cell cycle phases, loss of MMP and ROS level. Flow cytometry data were quantified using the CytExpert 2.0 software.