**Nutritional, Antioxidant, Antidiabetic, and Toxicity Assessments of An Herbal Formulation using *in vitro*, *ex vivo*, and *in vivo* Approaches**

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**Supplementary Data**

**Table S1**: AAS analysis of BF 2 powder

|  |  |
| --- | --- |
| **Elements** | **BF 2 (ppm)** |
| Zn | ND |
| Mg | 11.625±0.0096 |
| Na | 4.879±0.0012 |
| Pb | 0.788±0.0011 |
| Cd | 0.324±0.0011 |
| Co | 1.011±0.0006 |
| Cu | ND |
| Fe | 2.412±0.0015 |

ND= not detected

**Table S2**: Proximate analysis of BF 2 powder

|  |  |  |
| --- | --- | --- |
| **S/N** | **Proximate content** | **BF 2 (%)** |
| 1 | Ash content | 3.40±0.01 |
| 2 | Moisture contents | 5.5±0.01 |
| 3 | Crude fat | 1.85±0.10 |
| 4 | Crude fibre | 4.45±0.12 |
| 5 | Protein | 26.25±0.12 |
| 6 | Nitrogen Free Extract | 58.55±0.13 |

**Table S3**: Qualitative phytochemical screening of BF 2 powder

|  |  |  |
| --- | --- | --- |
| **S/N** | **Test** | **BF 2**  |
| 1 | Phenols | + |
| 2 | Glycosides | - |
| 3 | Terpenoids | ++ |
| 4 | Alkaloids | + |
| 5 | Flavonoids | ++ |
| 6 | Saponins | - |
| 7 | Tannins | - |
| 8 | Anthraquinone | + |

+ = indicates presence of phytochemicals; - = indicates absence of phytochemicals; ++ = shows moderate concentration.