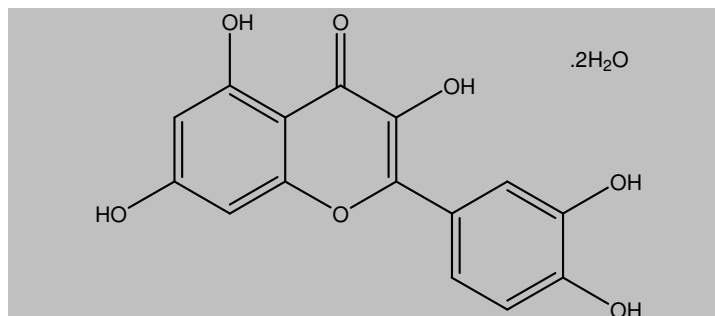


**Certificate Of Analysis**  
**Quality Control Testing and Research Application**COA Preparation Date: 30/12/2014  
COA Revision Date: 30/12/2017

**Product:** Quercetin  
**Cat. No.:** BS0155  
**Batch No.:** 0155BS/01  
**Chemical Name:** 2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benzopyran-4-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>10</sub>O<sub>7</sub> .2H<sub>2</sub>O  
**Batch Molecular Weight:** 338.24  
**CAS No.:** [117-39-5]  
**Physical Appearance:** Yellow solid  
**Melting Point:** 300° C  
**Solubility:** Soluble to 100 mM in DMSO  
**Storage:** RT  
**Batch Molecular Structure:**



**Product Description:** **Antitumour agent. Flavonoid that inhibits heat shock proteins synthesis and induces apoptosis. Inhibits multiple enzyme systems including tyrosine protein kinase, phospholipase A<sub>2</sub>, phosphodiesterases, mitochondrial ATPase, PI 3-kinase and protein kinase C. The antiproliferative effect of quercetin in cancer cells is mediated via inhibition of the PI3K-Akt/PKB pathway. Also an activator of Ca<sup>2+</sup> and K<sup>+</sup> channels.**

**References:** 1. Graziani et al. (1983) J Biochem 135:583; 2. Levy et al. (1984) Biochem Biophys Res Comm 123:1227; 3. Wei et al. (1994) Cancer Res 54:4952; 4. Cermak et al. (2002) Br J Pharmacol 135:1183; 5. Saponara et al. (2002) Br J Pharmacol 135:1819; 6. Gulati et al. (2006) Anticancer Res 26:1177

- CAUTION - Not fully tested. For Research use only. Not for human use. -



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**BS0155 Quercetin**

**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 98% (complies).

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