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## **-CERTIFICATE OF ANALYSIS-**

Product: 5-Oxo-5,6,7,8-tetrahydronaphthalene-2-carboxylic acid  
Code Number: OR0187  
CAS Number: 3470-46-0  
Formula: C<sub>11</sub> H<sub>10</sub> O<sub>3</sub>  
Batch Number: AS433818  
Appearance: Light brown solid  
Melting Point: >223 degrees C  
Water content: 0.3% (KF)  
Purity by HPLC: 99.70%  
Identity: <sup>13</sup>C-NMR conforms to structure

Verified by: David Parton

Signed: --Digital document, no signature required--