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-CERTIFICATE OF ANALYSIS-

| Product: | Ethyl 2-bromo-1,3-thiazole-4-carboxylate |
|-----------------|--|
| Code Number: | OR10474 |
| CAS Number: | 100367-77-9 |
| Formula: | C6H6BrNO2S |
| Batch Number: | AS488104 |
| Appearance: | Yellow solid |
| Melting Point: | 67.0-69.8 degrees C |
| Water content: | 0.08% (KF) |
| Purity by GC: | 98.8% by area |
| Purity by HPLC: | 97.1% by area |
| Identity: | Conforms |

Verified by: David Parton

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