

## Certificate of Origin and Analysis for BRUKER Quality Control Strains

We declare that the following DSMZ culture

DSM-No. Strain	Batch-No.	Risk Group
DSM 1103 <i>Escherichia coli</i>	May 2012	2

✓ is an authentic DSMZ culture derived directly from the strain held in the DSMZ

✓ has been produced in DSMZ laboratories at the address given below

✓ is of German preferential origin

✓ has been tested by DSMZ control procedures with respect to purity and identity

### Viability

Viability of the above batch was tested by subculturing.

### Purity

Purity of the above batch was checked after production. This check included microscopical and macroscopical observations and selected physiological, chemosystematic and molecular based tests.

### Authenticity

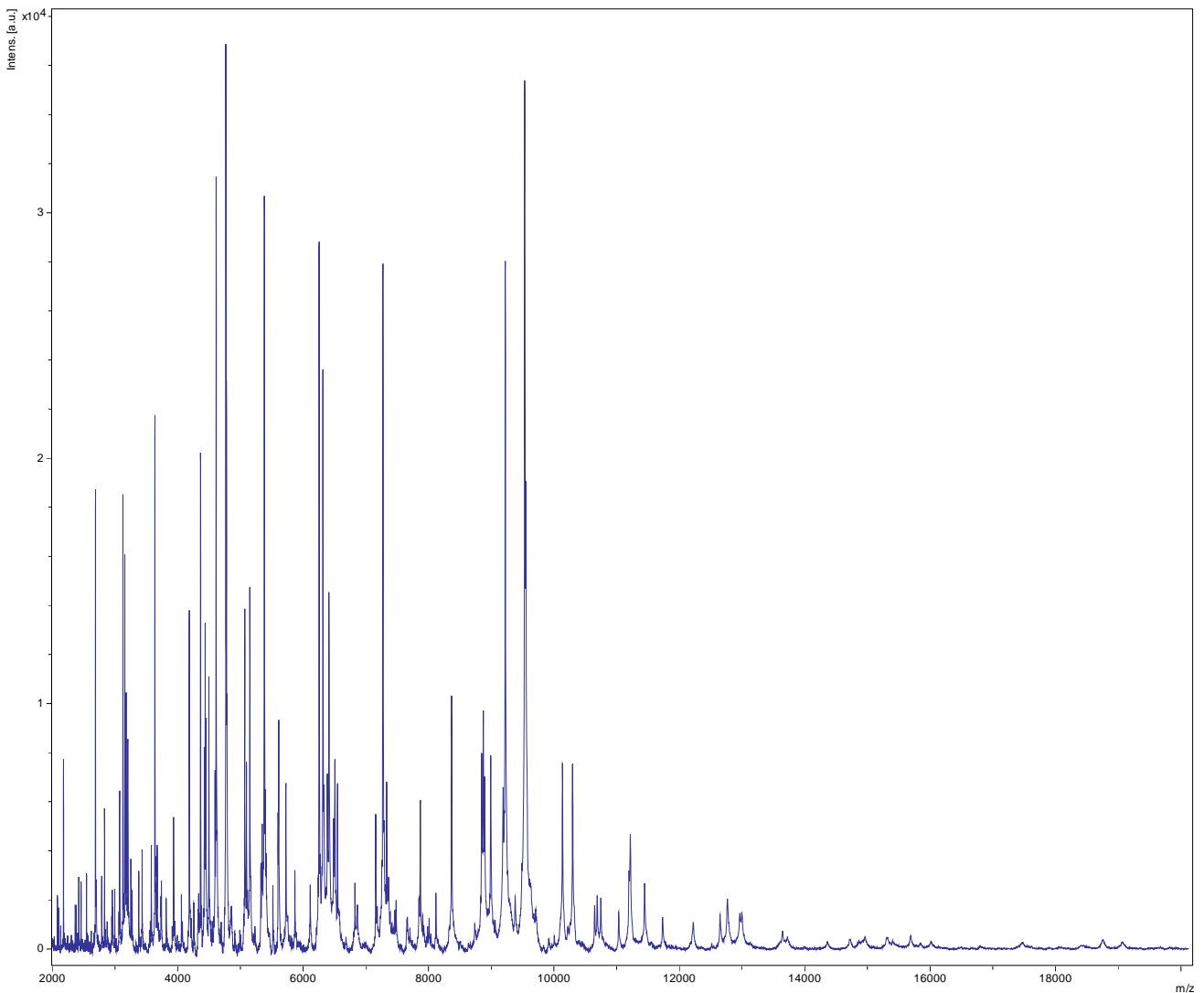
Authenticity of the above batch was checked by the following techniques:

- API® (Analytical Profile Index)
- Whole cell fatty acid composition
- RiboPrinting® (molecular characterisation)
- MALDI-TOF mass spectrometry (BRUKER; see next page)

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**DSM 1103 *Escherichia coli* (May 2012)**



MALDI-TOF mass spectra acquired on a MALDI Biotyper system (microflex LT mass spectrometer) at Bruker. The respective spectrum is stored at Bruker.