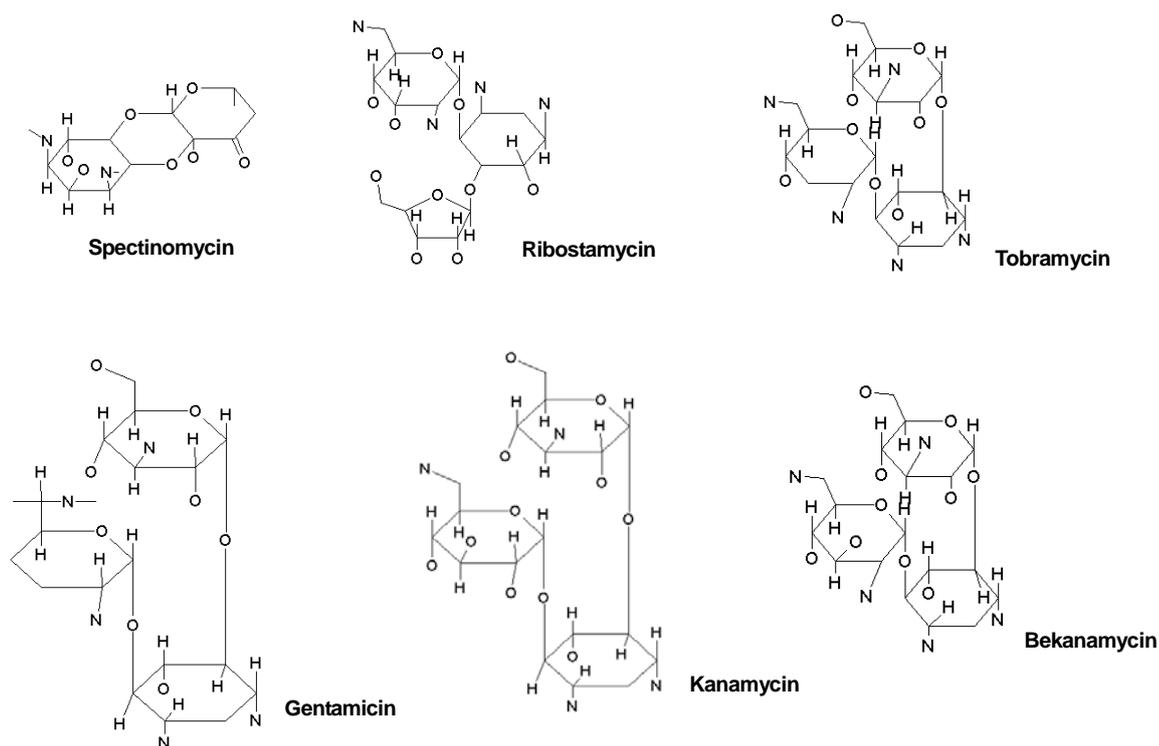


**Analysis of Aminoglycoside Antibiotics by LC-MS**

Aminoglycoside antibiotics refer to glycoside antibiotics containing amino sugars, and due to potent and broad antibacterial activities, they have been used against various bacteria. HPLC is used to measure their concentrations in blood and foods. Here, analyses for six aminoglycoside antibiotics by reversed phase chromatography using an ion-pair reagent are introduced.

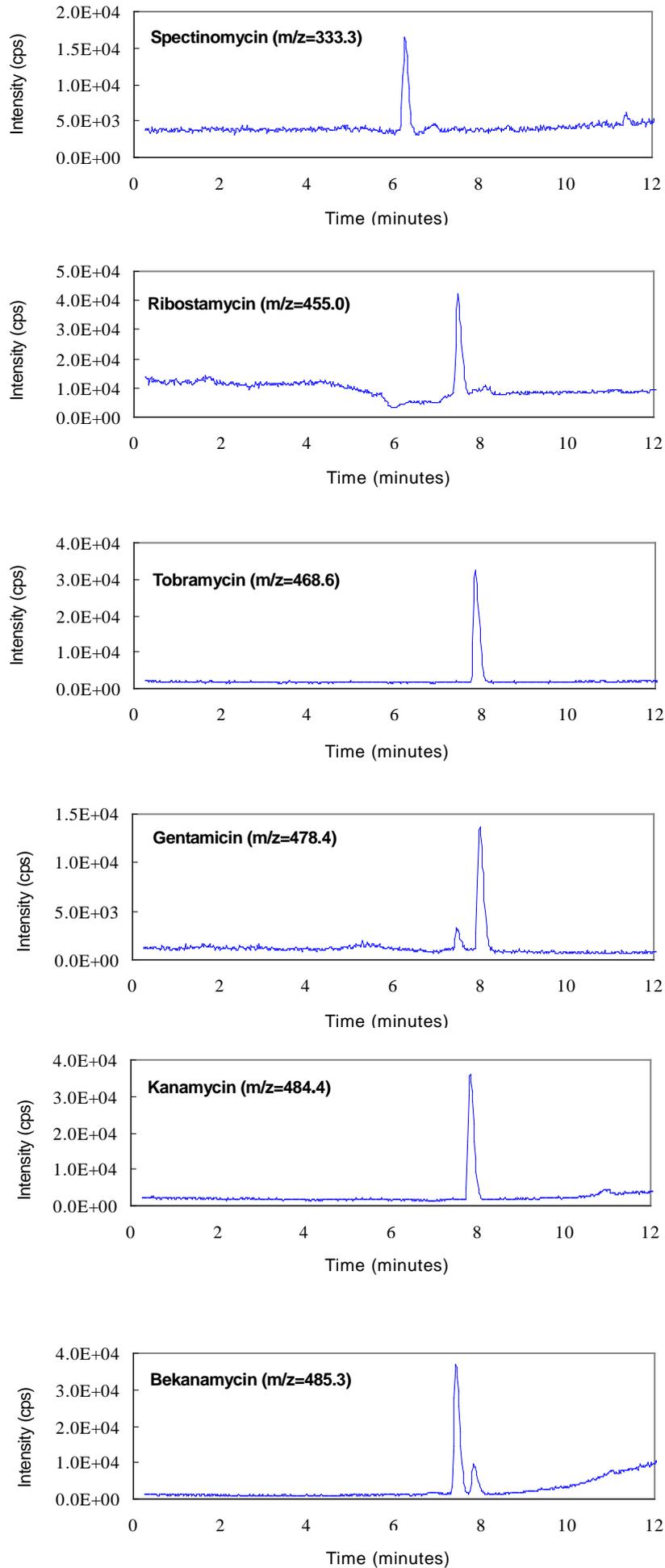
**Figure 1. Structural formulas**



**Table 1. Analysis conditions**

Column:	TSKgel ODS-100V, 3µm, 2.0mm ID x 15cm
Mobile phase:	A: 5mM heptafluoro-n-butyric acid in water B: acetonitrile
Gradient:	0min (10%B)→10min (60%B)→15min (60%B)
Flow rate:	0.2mL/min
Temperature:	40°C
Injection vol.:	5µL
Instrument:	QTRAP® (Applied Biosystems)
Ion Source:	ESI
Polarity:	Positive

**Figure 2: Analysis results for aminoglycoside antibiotics (0.1 μg/mL, 5 μL)**





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## **TOSOH BIOSCIENCE**

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