

Specification

Technical Data Sheet

CAS 89785-84-2	STORAGE 2 to 8 °C	MOLECULAR WEIGHT 322.27
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PRODUCT

Tazobactam sodium salt $\geq 99\%$

Product number	90032755
CAS number	89785-84-2
Molecular formula	C ₁₀ H ₁₁ NaN ₄ O ₅ S
Molecular weight	322.27 g/mol

PARAMETER	SPECIFICATION
Appearance	A white to almost white powder, hygroscopic. Freely soluble in water; slightly soluble in ethanol and in acetone.
Assay	98%-102%
Acetone	$\leq 0.5\%$
Conclusion	Complies with the requirements of in house standard.
Heavy metals	$\leq 20\text{ppm}$
Identification	1. The retention time of principal peak in the chromatogram of the test solution obtained in assay is identical with that of the principal peak in the chromatogram of the reference solution. 2. Yields the flame reaction characteristic of sodium salts. 3. The infrared absorption spectrum is concordant with the reference spectrum.
pH	5.0-7.0
Water	$\leq 4.0\%$
Bacterial endotoxins	Less than 0.0175 EU per mg of tazobactam
Clarity	$\leq 1\#$
Colour	$\leq \text{YG4}$ or Y
Dichloromethane	$\leq 0.06\%$
Ethanol	$\leq 0.5\%$

PARAMETER	SPECIFICATION
Ethyl acetate	≤0.5%
Methyl isobutyl ketone	≤0.5%
Related Substances	Impurity A: not more than 1.0%. Single impurity: not more than 1.0%. Total impurity: not more than 1.5%
Residue on Ignition	≤22.1%
Specific optical rotation	+138.0°~+152.0°
Sterility	Should be sterile
Toluene	≤0.089%
Particulate Matter > 10µm	≤3000 particles/vial
Particulate Matter > 25	≤300 particles/vial
Visible Foreign Matter	≤5

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.

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