

**JIANGSU KHONOR CHEMICALS CO., LIMITED****CERTIFICATE OF ANALYSIS**

NAME	(S)-Equol	QUANTITY	250KGs
MFG. DATE	Jan. 16, 2026	BATCH NO.	260116A
EXP. DATE	Jan. 15, 2028	CAS No.	531-95-3

Name of Index	STANDARD	Test result	Test Method
Purity	≥99%	99.6%	HPLC
Assay	≥98%	99.5%	HPLC
Physical and Chemical Controls			
Appearance	White powder	Pass	Visual inspection
Mesh size	100% pass through 100 mesh	Pass	Sieve test
Melting point	189-190°C	189°C	USP<741>
Optical rotation	$[\alpha]_D^{20} = -21^\circ$ (c = 5.0 g/L, Ethanol)	-21.1°	USP<781>
Loss on drying	≤1%	0.12%	USP<731>
Residual solvent (Ethanol)	<200 ppm	84 ppm	USP<467>
Heavy Metal Controls			
Arsenic (As)	≤1 ppm	Pass	USP<233>
Lead (Pb)	≤1 ppm	Pass	USP<233>
Mercury (Hg)	≤1 ppm	Pass	USP<233>
Cadmium (Cd)	≤1 ppm	Pass	USP<233>
Total heavy metals	≤10 ppm	Pass	USP<233>
Microbiological Controls			
Escherichia coli	Absent	Pass	USP<62>

Staphylococcus aureus	Absent	Pass	USP <62>
Salmonella	Absent	Pass	USP <62>
Total coliforms	< 100 CFU/g	Pass	AOAC
Total molds and yeasts	≤ 100 CFU/g	Pass	USP <61>
Total aerobic count	≤ 1000 CFU/g	Pass	USP <61>

ANALYST: Guan Yang

APPROVER: Shan Gu