

**CERTIFICATE OF ANALYSIS****Product name: Diosmin****Specification: Micronized****Batch No.: 250307****Inspection Date: 2025.03.15****Batch Quantity: 1000kg****Manufacture Date: 2025.03.07****Expiry Date: 2027.03.06**

Test Item	Acceptance Criteria	Result	
<b>Characters</b>	Light yellow or greyish-yellow or off white hygroscopic powder.	Complies	
<b>Solubility</b>	Practically insoluble in water, soluble in dimethyl sulfoxide, practically insoluble in alcohol. It dissolves in dilute solutions of alkali hydroxides.	Complies	
<b>Identification</b>	Comparison: diosmin CRS. The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with the reference solution(a).	Complies	
<b>Iodine</b>	≤0.1%	<0.1%	
<b>Related Substances (HPLC)</b>	Impurity A: Acetoisovanillone ≤1.0%	0.03%	
	Impurity D: 6-iododiosmin ≤0.6%	0.15%	
	Any other impurity ≤1.0%	<1.0%	
	Total impurities ≤2.0%	0.52%	
<b>Heavy metals</b>	ICH Q3D	Complies	
<b>Water</b>	≤6.0%	3.9%	
<b>Sulfated ash</b>	≤0.2%	0.10%	
<b>Residual Solvents</b>	Pyridine	≤200ppm	69ppm
	Methanol	≤3000ppm	0ppm
	Ethanol	≤5000ppm	0ppm
<b>Assay by HPLC</b>	Total flavonoids 97.0-103.0%	100.3%	
	Diosmin 87.0-93.0%	91.2%	
	Hesperidine 2.5-5.0%	3.8%	
	Isorhoifolin 0.9-2.8%	2.63%	
	Linarin 0.9-2.8%	1.71%	
	Diosmetin not more than 1.0%	0.42%	
<b>Particle Size</b>	D90 not more than 3.5 μm;	Complies	
	D50 not more than 1.5 μm;	Complies	
	Weighted average particle size by mass/volume (D[4,3]) no more than 1.6 microns.	Complies	
<b>Microbial Limit</b>	Total Bacteria Count	≤1000cfu/g	101cfu/g
	Yeasts and Moulds	≤100cfu/g	<10cfu/g
	E. Coli	Negative in 1 g	Complies
	Salmonella	Negative in 10g	Complies
	S. Aureus	Negative in 1g	Complies
	P. Aerugionsa	Negative in 10g	Complies

**Conclusion: Conform with Specification.****Storage:** Keep in cool & dry place. Keep away from strong light and heat.**Shelf life:** 24 months when properly stored.

ANALYST: 06

CHECKER: 01

SUPERVISOR: 03