

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Diosmin	<b>Used Part</b>	Immature fruit
<b>Botanical Source</b>	<i>Citrus Aurantium L.</i>	<b>Mfg. Date</b>	May.6th, 2024
<b>Batch No.</b>	YOUTH2024050641	<b>Retest Date</b>	May.17th, 2024
<b>Packing</b>	25kg/Drum	<b>Report Date</b>	May.29th, 2024
<b>Quantity</b>	1000kg	<b>Expire Date</b>	May.5th, 2026
<b>Specification</b>	EP11.0		

ITEM	SPECIFICATION	RESULT
<b>Appearance</b>	Greyish-yellow or light yellow, hygroscopic powder	Complies
<b>Solubility</b>	Practically insoluble in water, soluble in dimethyl sulfoxide, practically insoluble in ethanol (96%), it dissolves in dilute solution of alkali hydroxides	Complies
<b>Identification</b>	A) IR: Complies diosmin CRS B) HPLC: Complies to the reference solution	Complies
<b>Iodine</b>	≤0.1%	Complies
<b>Related Substances</b>		
Impurity A(Acetoisovanillone)	≤0.5%	0.03%
Impurity B(Hesperidin)	≤4.0%	0.86%
Impurity C(Isorhoifolin)	≤3.0%	2.60%
Impurity D(6-iododiosmin)	≤0.6%	0.42%
Impurity E (Linarin)	≤3.0%	2.16%
Impurity F(Diosmetin)	≤2.0%	0.36%
Unspecified Impurities(each)	≤0.4%	0.35%
Total Impurities	≤8.5%	6.78%
<b>Heavy Metals</b>	≤20ppm	Complies
<b>Water</b>	≤6.0%	3.97%
<b>Sulphated Ash</b>	≤0.2%	0.07%
<b>Particle Size</b>	NLT95% pass 80 mesh	Complies
<b>Assay</b> (HPLC, Anhydrous substance)	90.0%~102.0%	91.37%
<b>Residual Solvents</b>		
Pyridine	≤200ppm	121ppm
<b>Total Plate Count</b>	≤1000cfu/g	30cfu/g
-Yeast & Mold	≤100cfu/g	<10cfu/g
-E.Coli	Negative/g	Negative/g
-Salmonella	Negative/25g	Negative/25g
<b>Conclusion</b>	Comply with EP11.0.	
<b>Storage</b>	Preserve in tight containers, protected from strong light and high heat.	

Analyst:Guo Shan

QC MANAGER:Feng Li

