

## CERTIFICATE of ANALYSIS

Rottach-Egern, on August 01<sup>st</sup> 2022

## General Information

Product Name:	Quercetin Dihydrate min. 95% HPLC
CAS:	6151-25-3
Item Number:	800 150
Batch Number:	20211207
Production Date:	07. Dec 2021
Best before:	06. Dec 2024
Origin	China
Botanical name	<i>Sophorae Japonica</i>
Plant part used	Blossom
Solvent	Ethanol
Description	Yellow Powder

	Result	Specification	Method
<b>Physical and Chemical Property</b>			
Identification	Conforms	Positive	Visual
Purity	95.55 %	≥ 95.00 %	HPLC
Drying loss	11.10 %	≤ 12.0 %	USP <731>
Ash	< 0.3 %	≤ 0.3 %	USP <561>
Grain size	Conforms	90 % (80 Mesh)	USP <789>
Bulk density	Conforms	≥ 0.10 g/ml	USP <616>
Melting point	313°C	305 ~ 315°C	USP <741>
Residual solvent	Conforms	Conforms	USP <221>
Pesticides residues	Conforms	Conforms	GC
Sulfates	Conforms	≤ 1000 ppm	USP <221>
Chlorides	Conforms	≤ 1000 ppm	USP <221>

## Residue Analysis

Lead (Pb)	< 3 ppm	≤ 3 ppm	ICP-MS
Arsenic (As)	< 1 ppm	≤ 1 ppm	ICP-MS
Cadmium (Cd)	< 1 ppm	≤ 1 ppm	ICP-MS
Mercury (Hg)	< 0.1 ppm	≤ 0.1 ppm	ICP-MS

## Microbiological Tests

Total Plate Count	< 100 cfu/g	≤ 1000 cfu/g	USP <61>
Total Yeast & Moald	< 10 cfu/g	≤ 100 cfu/g	USP <61>
Coliforms	Conforms	Negative	USP <62>
E. coli	Conforms	Negative	USP <62>
Salmonella	Conforms	Negative	USP <62>

## Product Status

Conclusion:	Sample Qualified.
Storage:	Store sealed at room temperature, protected from moisture and infestation.

We certify the true copy of the manufacturer's original specification. We have verified the results by an independent laboratory. Still, the user of the goods is obliged to carry out their own checks upon receipt of the goods.