# PQQ Free Acid

*$C_{14}H_6N_2O_8$ · CAS 72909-34-3 · Pyrroloquinoline quinone, free acid*

**SPECIMEN — LIMITS ONLY · BATCH RESULTS ISSUED WITH THE LOT**

| PRODUCT | CHEMICAL FORM | CAS | SPECIFICATION VERSION |
|---|---|---|---|
| PQQ Free Acid | Pyrroloquinoline quinone, free acid | 72909-34-3 | Catalog · confirmed at quotation |
| **BATCH NUMBER** | **MANUFACTURE DATE** | **RETEST DATE** | **RELEASE DECISION** |
| Issued with the lot | Issued with the lot | Issued with the lot | Issued with the lot |

## RELEASE SPECIFICATION

| PARAMETER | SPECIFICATION | METHOD |
|---|---|---|
| Assay (HPLC) | ≥98.0% | As stated |
| Appearance | Red-orange to brown powder | As stated |
| Identification | HPLC and UV conform | As stated |
| Loss on drying | ≤1.0% | As stated |
| Heavy metals | Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg | As stated |
| Microbiology | APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent | As stated |
| Particle size | ≥95% through 80 mesh | As stated |
| Marker set | PQQ free acid ≥98.0% (HPLC) | Identity |
| Solubility | Slightly soluble in water; soluble in alkaline solutions. | Matrix dependent |

## LOT FIELDS

A batch-specific certificate replaces the fields above with the measured result, the method actually used, the batch number, the manufacture and retest dates, and the release signature. The catalog limits on this page are the release window, not a result.

## STATEMENT

This specimen shows the format and the release specification. It is not a batch COA and must not be presented as one. The COA that ships with a lot is issued from the released batch and is available before dispatch.

**Pack and storage.** 1 kg foil pouch · 25 kg fiber drum. Store closed in a cool, dry place, away from direct sunlight and moisture. The lot-specific retest date is shown on the batch certificate.

Shaanxi Rainwood Biotech Co., Ltd. · Rm 218, Tangxing Digital Bldg, #6 Tangxing Rd, Xi'an, Shaanxi, China

info@rainwoodbio.com · nutrition.rainwoodbio.com