



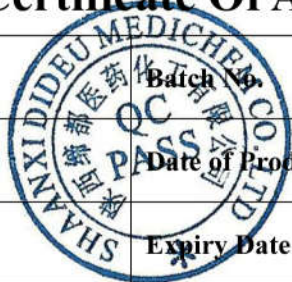
陕西缔都医药化工有限公司  
Shaanxi Dideu Medichem Co. Ltd

Tel: +86-29-88380327 Fax: +86-29-88380326

No 302,Jinggao South Rd, Jinghe Industrial Park,Gaoling County,Shaanxi Province,China 710200

Certificate Of Analysis

|                     |  |                    |            |
|---------------------|--|--------------------|------------|
| Product Name        | p-Chloranil  | Batch No           | 170523C904 |
| Sample Qty Base     | 18000kgs   | Date of Production | 2017.05.23 |
| Analysis Date       | 2017.05.23   | Expiry Date        | 2021.05.22 |
| Standard            | GB/T 2012-DAG  | Packing            | 25 kgs/Bag |
| Item                | Standard   | Test Results       |            |
| Appearance          | Yellow crystalline powder                              | Complies           |            |
| Purity              | ≥99%   | 99.76%             |            |
| Melting Point       | ≥290   | 292.8°C            |            |
| Water               | ≤0.5%  | 0.23%              |            |
| Iron                | ≤100ppm  | <50 ppm            |            |
| Residue on Ignition | ≤0.2%  | 0.09%              |            |
| Storage             | In a tightly closed container and protected from light | Complies           |            |
| Conclusion          | The batch conforms to the GB/T 2012-DAG standard       |                    |            |



Reported By: 吴丽丽 Checked By: 程罗顺 QC Manager: 郭毅

For and on behalf of  
DIDEU INDUSTRIES GROUP LIMITED  
缔都工业集团有限公司

Authorized Signature(s)

For PCDD Analysis check the attached page 2

| <b>Analysis for PCDD/F</b>   |               |            |                   |
|--|---------------|------------|-------------------|
| <b>1, Applied Analytical Techniques</b>  |               |            |                   |
| <b>PCDD/F</b>  |               |            |                   |
| Extraction of the sample after adding the surrogate standards for PCDD/F, Analysis of the extract after different clean-up steps with High Resolution Gas Chromatography (HRGC) and High Resolution Mass Spectrometry (HRMS) according to isotope dilution method. |               |            |                   |
| <b>2, Analytical Results</b>   |               |            |                   |
| <b>Concentration</b>   | <b>WHO-TE</b> | <b>ITE</b> | <b>[ng/kg OS]</b> |
| Polychlorinated Dibenzodioxins   | Factor        | Factor     |                   |
| 2,3,7,8-TCDD   | 1.00          | 1.00       | < 1               |
| 1,2,3,7,8-PeCDD  | 1.00          | 0.50       | < 1               |
| 1,2,3,4,7,8-HxCDD  | 0.10          | 0.10       | <2                |
| 1,2,3,6,7,8-HxCDD  | 0.10          | 0.10       | <2                |
| 1,2,3,7,8,9-HxCDD  | 0.10          | 0.10       | <3                |
| 1,2,3,4,6,7,8-HpCDD  | 0.01          | 0.01       | 14                |
| OCDD   | 0.0001        | 0.001      | <b>27</b>         |
| Polychlorinated Dibenzofurans  |               |            |                   |
| 2,3,7,8-TCDF   | 0.10          | 0.10       | <3                |
| 1,2,3,7,8-PeCDF  | 0.05          | 0.05       | <9                |
| 2,3,4,7,8-PeCDF  | 0.50          | 0.50       | <2                |
| 1,2,3,4,7,8-HxCDF  | 0.10          | 0.10       | 245               |
| 1,2,3,6,7,8-HxCDF  | 0.10          | 0.10       | 82                |
| 1,2,3,7,8,9-HxCDF  | 0.10          | 0.10       | 2                 |
| 2,3,4,6,7,8-HxCDF  | 0.10          | 0.10       | 4                 |
| 1,2,3,4,6,7,8-HpCDF  | 0.01          | 0.01       | 508               |
| 1,2,3,4,7,8,9-HpCDF  | 0.01          | 0.01       | 94                |
| OCDF   | 0.0001        | 0.001      | 713               |
| Toxicity equivalents (ITE) with DL   |               |            | 44.2              |
| Toxicity equivalents (ITE) without DL  |               |            | 40.2              |
| Upper Bound Limit, TE (WHO) with DL  |               |            | 44.0              |
| Medium Bound Limit, TE (WHO) with 1/2 DL   |               |            | 41.8              |
| Lower Bound Limit, TE (WHO) without DL   |               |            | 39.5              |

**DL = Detection Limit, OS = Original Substance**

| Group                            | Concentration in µg/kg | Limit in µg/kg |
|----------------------------------|------------------------|----------------|
| Group I                          |                        |                |
| 2,3,7,8-TCDD                     | < 0.001                |                |
| 2,3,7,8-TCDF                     | < 0.003                |                |
| 1,2,3,7,8-PeCDD                  | < 0.001                |                |
| 2,3,4,7,8-PeCDF                  | < 0.002                |                |
| Sum of Group I with DL           | 0.007                  | 1              |
| Group II                         |                        |                |
| 1,2,3,7,8-PeCDF                  | < 0.009                |                |
| 1,2,3,4,7,8-HxCDD                | < 0.002                |                |
| 1,2,3,6,7,8-HxCDD                | < 0.002                |                |
| 1,2,3,7,8,9-HxCDD                | < 0.003                |                |
| 1,2,3,4,7,8-HxCDF                | 0.245                  |                |
| 1,2,3,6,7,8-HxCDF                | 0.082                  |                |
| 1,2,3,7,8,9-HxCDF                | 0.002                  |                |
| 2,3,4,6,7,8-HxCDF                | 0.004                  |                |
| Sum of Group I + II with DL      | 0.356                  | 5              |
| Group III                        |                        |                |
| 1,2,3,4,6,7,8-HpCDD              | 0.014                  |                |
| 1,2,3,4,6,7,8-HpCDF              | 0.508                  |                |
| 1,2,3,4,7,8,9-HpCDF              | 0.094                  |                |
| 1,2,3,4,6,7,8,9-OCDD             | 0.027                  |                |
| 1,2,3,4,6,7,8,9-OCDF             | 0.713                  |                |
| Sum of Group I + II+ III with DL | 1.71                   | 100            |

Reported By: 杜成刚

Checked By: 何雪

QC Manager: 杨曼曼

QA Manager: 何雪

