

CERTIFICATE OF ANALYSIS

Product : ISOPROPYL-β-D-THIOGALACTOPYRANOSIDE (IPTG)
 Product number : I1401
 Batch number : 013519
 Date of analysis : 19-12-2017
 Date of expiry : 31-12-2022
 Packaging and storage : in a well-closed container under dry conditions between -25°C – -15°C

| | SPECIFICATION | RESULT | UNITS | REMARKS |
|-------------------|----------------------|----------|-------|------------------------|
| Appearance | white powder | complies | | |
| Solubility | clear and colourless | complies | | 5% in H ₂ O |
| IR-spectrum | conform | complies | | |
| pH | 5.0 – 8.0 | 6.3 | | 5% in H ₂ O |
| Specific rotation | -30 – -34 | -33.0 | ° | C=1, H ₂ O |
| 1,4-Dioxane | ≤ 1 | complies | ppm | GC |
| Water | ≤ 1.0 | 0.1 | % | Karl Fischer |
| Assay | ≥ 99.0 | 99.8 | % | HPLC |

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by: *plo*

drs. M. van Wissen, pharmacist
 Department of Quality Control Duchefa B.V.

Date: 02-02-2018

S. de Bree
S. de Bree

The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.