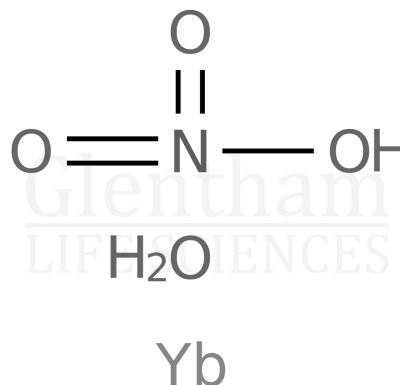


## Certificate of Analysis

|               |                                  |
|---------------|----------------------------------|
| Product Name  | Ytterbium nitrate hydrate, 99.9% |
| Glentham Code | GX6920                           |
| CAS Number    | 35725-34-9                       |
| Batch Number  | 447LOL                           |

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Molecular Weight  | 359.05                                               |
| Molecular Formula | $\text{Yb}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$ |
| Storage Temp.     | +20°C                                                |



| Property                  | Specification                                        | Batch 447LOL                                                                                                                                          |
|---------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Description      | White or almost white crystalline powder or crystals | White crystalline powder                                                                                                                              |
| Trace Rare Earth Analysis | Reported                                             | (max, ppm) La2O3: 5, CeO2: 5, Pr6O11: 5, Nd2O3: 5, Sm2O3: 5, Eu2O3: 5, Gb2O3: 5, Tb4O7: 5, Dy2O3: 5, Ho2O3: 6, Er2O3: 7, Tm2O3: 10, Lu2O3: 6, Y2O3: 5 |
| Purity                    | ≥ 99.9% (TREO basis)                                 | ≥ 99.99%                                                                                                                                              |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2020-06-18 |
| Re-Test Date          | 2029-08-07 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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