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## Certificate of analysis

### Reference #: 019/331

Manufacturing date

Analysis date

|              |  |                   |                            |        |                             |
|--------------|--|-------------------|----------------------------|--------|-----------------------------|
| Product name | <b>Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)yttrium(III) , 98+% (99.9%-Y) (REO)</b> |                   |                            |        |                             |
| Ereztech #   | <b>Y2390</b>   | CAS#              | <b>15632-39-0</b>          | Purity | <b>98.4% (by titration)</b> |
| Lot/batch #  | <b>019/331</b>   | Net weight/volume | <b>200 g</b>               | Seal # | <b>N/A</b>                  |
| Packaging    | <b>1 glass bottle</b>  | Storage           | <b>Shelf life 3 years.</b> |        |                             |
| CofO         | <b>Russia</b>  |                   |                            |        |                             |

| Analytical results |                                     |                  |           |                  |
|--------------------|-------------------------------------|------------------|-----------|------------------|
| Appearance         | <b>white crystals</b>               |                  |           |                  |
| Titration          | <b>%Y = 13.7 % (complexometric)</b> |                  |           |                  |
| Purity             | <b>98.4%</b>                        |                  |           |                  |
| ICP                | <b>99.9% (metals basis)</b>         |                  |           |                  |
| Impurity weight, % | <b>Gd2O3</b>                        | <b>0.045</b>     | <b>Ca</b> | <b>&lt;0.005</b> |
|                    | <b>Tb2O3</b>                        | <b>&lt;0.01</b>  | <b>Cu</b> | <b>&lt;0.005</b> |
|                    | <b>Dy2O3</b>                        | <b>&lt;0.005</b> | <b>Fe</b> | <b>&lt;0.005</b> |
|                    | <b>Ho2O3</b>                        | <b>&lt;0.005</b> | <b>Na</b> | <b>&lt;0.005</b> |