

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name: Betacellulin (BTC), Human

Cat. No.: Z03244-10, Z03244-50, Z03244-1

Lot No.: P50101503

Size: 10 µg/vial; 50 µg/vial; 1 mg/vial

Storage Condition: Lyophilized recombinant human Betacellulin (BTC), (rh Betacellulin) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rh Betacellulin remains stable up to 2 weeks at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (0.1% HSA or BSA) be added. Avoid repeated freeze-thaw cycles.

### Quality Control

| Test Items                              | Specifications              | Results    |
|---|-----------------------------|------------|
| Physical Appearance                     | White Freeze - dried Powder | Conformed  |
| Purity (SDS-PAGE)                       | > 95%                       | Conformed  |
| Biological Activity (ED <sub>50</sub> ) | < 0.01 ng/ml                | 0.09 pg/ml |
| Molecular Weight                        | 15 kDa                      | Conformed  |
| Bacterial Endotoxin                     | < 0.2 EU/µg                 | Conformed  |

### Caution:

For laboratory use only. Not for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by: Joe Wang Date: 03/31/2015  
Protein Products Department