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**Catalog No. GEJ-001**

**Recombinant beta-galactoside-alpha-2,6-sialyltransferase (EC No. : 2. 4. 99. 1)**

<b>Origin</b>	Expressed in <i>E.coli.</i> , recombinant form of $\alpha$ 2,6-sialyltransferase from <i>Photobacterium damsela</i> JT0160
<b>Physical form</b>	Solution in 20 m mol/L bis-tris, pH6.0, 110 m mol/L NaCl
<b>Total activity* (Volume)</b>	0.5U ( 25 ul) *: Neuraminidase activity and Protease activity were not detected. *: Beta-galactosidase activity was detected slightly.
<b>Mw (kDa)</b>	44.6
<b>Optimal pH and Temperature (°C)</b>	pH=5.0, 30°C
<b>Storage</b>	-20°C or -80°C
<b>Standard Assay Method</b>	Sialyltransferase activity was assayed by measuring [4,5,6,7,8,9- <sup>14</sup> C]-NeuAc transferred from CMP-[4,5,6,7,8,9- <sup>14</sup> C]-NeuAc to lactose as an acceptor substrate. Add 0.5M of NaCl to the reaction mixture. The radioactivity of CMP-[4,5,6,7,8,9- <sup>14</sup> C]-NeuAc that had transferred to the acceptor was measured with a liquid scintillation counter, and the amount of NeuAc transferred was calculated.  $\text{CMP-[4,5,6,7,8,9-}^{14}\text{C]-NeuAc} + \text{lactose} \longrightarrow \text{[4,5,6,7,8,9-}^{14}\text{C]-NeuAc-lactose} + \text{CMP}$
<b>Activity definition</b>	One Unit is defined as the amount of enzyme that transfers 1.0 $\mu$ mol of NeuAc from CMP-NeuAc to lactose per minute at 30°C, pH5.0
<b>References</b>	1. Yamamoto, T., et al. <i>J.Biochem.</i> (Tokyo) <b>120</b> , 104-110 (1996) 2. Yamamoto, T., et al. <i>J.Biochem.</i> (Tokyo) <b>123</b> , 94-100 (1998) 3. Kajihara, Y., et al. <i>J.Org. Chem.</i> <b>61</b> , 8632-8635 (1996)

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