

#### CellMosaic, INC

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## Certificate of Analysis

#### **Description of the Material:**

(a) Chemical Name: HRP-MMAF (1:1) Conjugate

(b) Chemical Structure:

(c) Molecular Weight: 44.7 KDa

(d) Appearance: Brownish lyophilized powder in a 1.5 mL centrifuge tube

(e) Amount: Each tube contains 0.5 mg of HRP-MMAF

(f) Reconstitution: dissolve in 225  $\mu$ L of deionized water to achieve 2.229 mg/mL in 1xPBS buffer containing sugar-based stabilizer (no preservative)

#### SKU Code and Batch Number:

(a) SKU Code: CM53216-0.5MG or CM53216-2MG

(b) Lot Number: S512.S13.0122D

### Purity, Activity, MS, and Loading:

- (a) HPLC analysis: ≥99% of one MMAF labeled HRP (some aggregated forms), free of any unreacted HRP and MMAF (Chromatography purified).
- (b) MALDI-TOF MS Data for Intact Conjugate: 44724 Da
- (c) HRP Activity: ≥ 208 units/mg protein [Unit Definition. One unit is amount of enzyme that will form 1.0 mg purpurogallin from pyrogallol in 20 sec. at pH 6.0 at 20 °C]

**Intended Use:** For research and development use only.

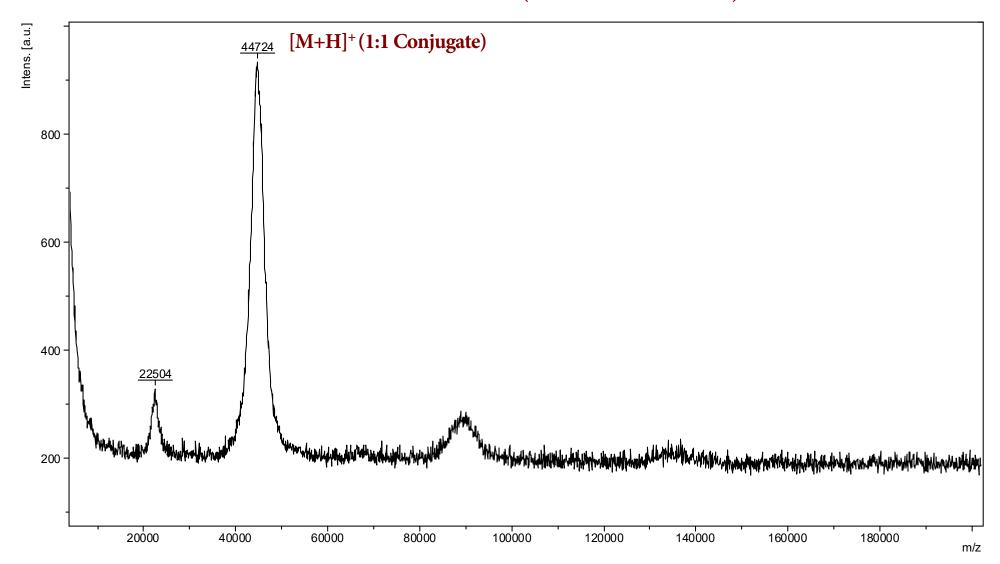
Hazard Information: See SDS.

**Shelf life, Storage/Stability**: The conjugate is fairly stable as solid at ambient temperature. Recommended long-term storage is at -20°C or preferably in a -80°C freezer. After reconstitution, the stock solution could be used up to 1 week if stored at 2-8°C, and for about 2-4 weeks if stored frozen at -20°C or below; without significantly losing HRP activity.

**Expiration date:** 1 year after receiving if stored at -20°C or below.

Data Appendix: Size exclusion HPLC and MALDI-TOF MS Data.

# MALDI-TOF MS of HRP-MMAF (Lot#: S512.S13.0122D)



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HPLC ANALYSIS DATA

Data Acquired By:QC Sample Location: Vial 41 Sample Name: HRP-MMAF

SAMPLE INFORMATION --

Prod# CM53216 Lyo vial (Lot:S512.S13.0122D) Recons. with 75ul DI H20

Actual injection Volume: 10.0 uL Sequence Name: Method:C:\HPCHEM\1\METHODS\C2-3001.M Pressure: 39.8 bar Flow: 0.750 uL/min Temp (C): 25.0 C

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CHROMATOGRAM (UV/Vis)					
DAD1 A, Sig=410,8 Ref=off (HPLC4_24\01260004.D)					
mAU 🖠	<b>3</b>				
1	12.243				
60 –	17				
1 1					
50 -					
]					
40 -					
30 -					
30					
1					
20 –	0				
1	86				
10 -	10.930				
	^ /				
0	V				
1 1					
Ó	5 10 15 20				
min					

Signal Description Wavelength(nm), Bw	Retention Time [Min.]	Area [mAU.s]	Area %
DAD1 A, Sig=410,8 Ref=off	10.930	138.6	6.7
	12.243	1924.5	93.3

\*\*\*\*\*\*\*\*END OF REPORT\*\*\*\*\*