RAPID CRS Evidence Sheet －Fluorescent measurement－

【Summary】
We evaluated the autofluoresence of RAPID CRS with a spectrometer. The result showed RAPID CRS were excited the most at 225 nm and 265 nm. Then, maximum emission was observed at 292nm after the both excitations.

【Method】
We measured the autofluorescent intensities of RAPID CRS with a spectrophotometer (FP8600, JASCO). The range of wavelength for excitation was from 200nm to 850nm.

【Result】
RAPID CRS were excited the most at 225nm and 265nm. Then, the maximum emission was observed at 292nm after the both excitations.

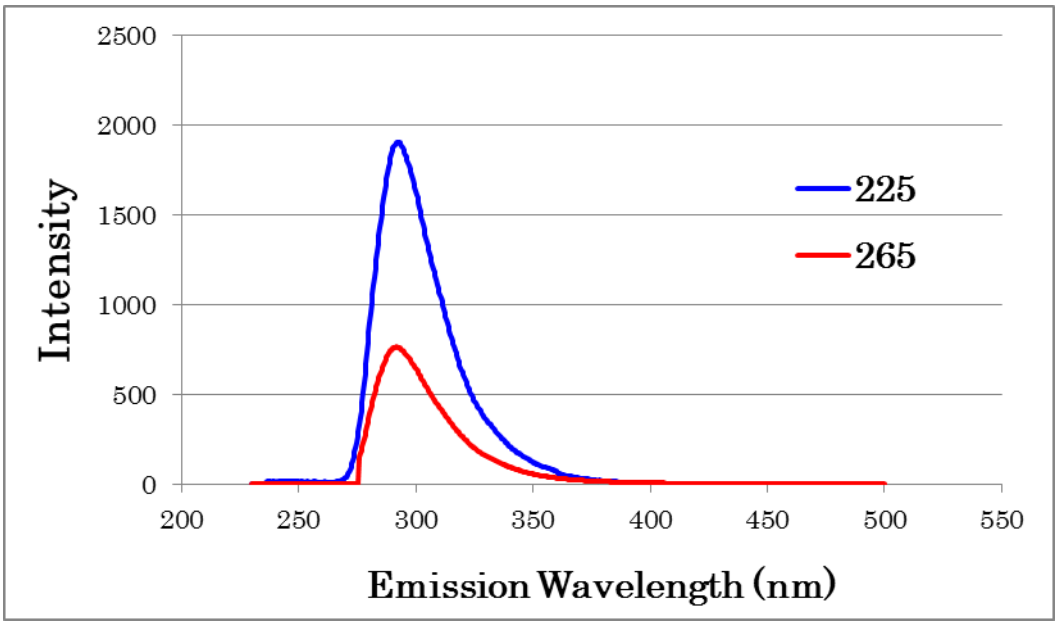

Figure : Autofluoresence of RAPID CRS

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RAPID CRS Evidence Sheet －Optical transmittance－

【Summary】
We evaluated the optical transmittance of RAPID Clear Resistant Seal (RAPID CRS) with a plate reader. The transmittance was more than 90% at the wavelengths ranged from 290nm and 1000nm.

【Method】
We measured 96 wells of a transparent well plate (UVStar plate, greiner) before and after sealing with RAPID CRS using a microplate reader (infinite 200Pro, Tecan). The absorbance of RAPID CRS was calculated by subtracting values for the former from those for the latter. The range of wavelength was from 260nm to 1000nm.

【Result】
The optical transmittance of RAPID CRS was more than 90% at the wavelengths ranged from 290nm and 1000nm.

Wavelength (nm)	260	280	290	300	350	400	450	500	550
Transmittance(%)	70.7	72.4	90.0	93.3	96.1	96.5	96.5	96.7	96.8

Wavelength (nm)	600	650	700	750	800	850	900	950	1000
Transmittance(%)	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9

Table ：Optical transmittance of RAPID CRS

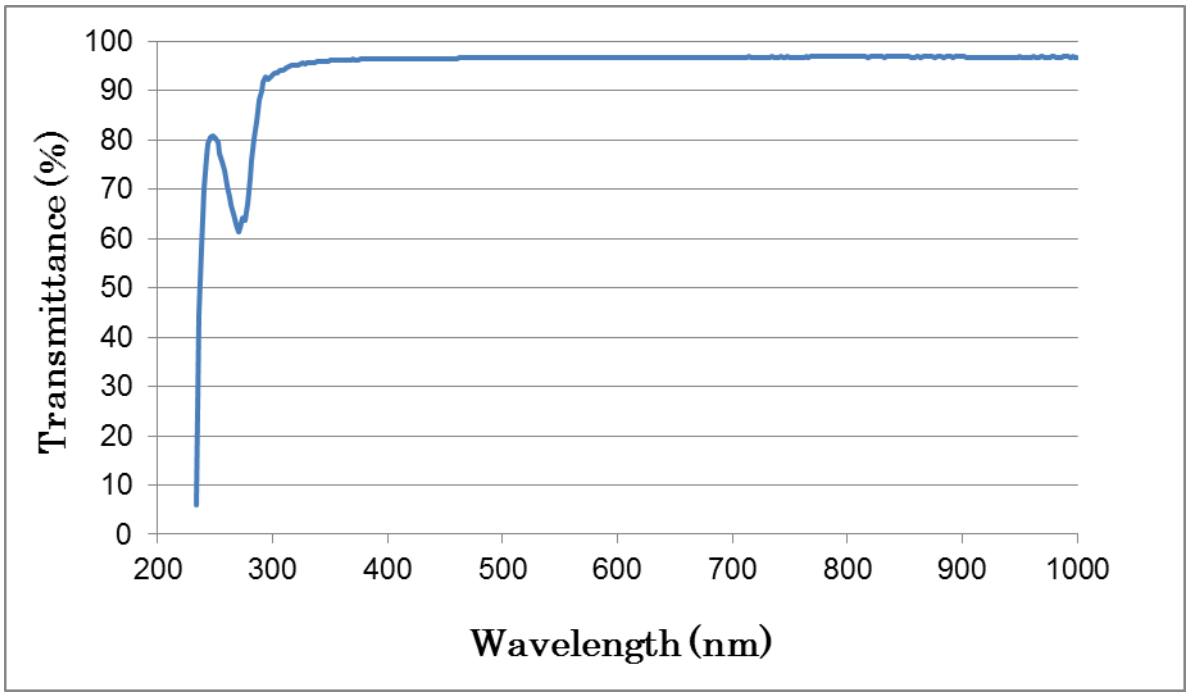

Figure : Optical Transmittance of RAPID CRS