

October 30, 2023

Josh Bennett Chief Executive Officer Cavo Med LLC 23600 Mercantile Road, Suite 100 Beachwood, Ohio 44122

Dear Josh:

Enclosed are the attenuation and lead equivalency results for the sample that was recently submitted to Health Physics Northwest. At your request all tests were performed in accordance with ASTM test Method F2547-18. The documentation on the following page contains all of the information regarding this testing.

If you have any questions or need any additional information, please contact our office.

Sincerely,

Matt Brien, BS Medical Physicist

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Encl.

## ASTM test Method F2547-18 14.2.1 Test Information

Date of Testing
Place of Testing
Name of Individual Performing the Testing
Manufacturer / Model of X-ray Generator
Manufacturer / Model of X-ray Tube

October 30, 2023
Health Physics Northwest
Matt Brien, BS Health Physics Northwest
Trex TM50 (G-9750A)
Varex Imaging Corporation / A-192

Set kVp Measured kVp mAs Half-Value Layer (mm Al)

Testing Parameters						
59	89	109	131			
59.8	90.0	109.7	130.2			
57	44	35	25			
2.88	4.32	5.53	6.71			

All exposure, kVp, and HVL measurements performed with an Unfors RaySafe X2 R/F sensor, Serial No.: 218431 calibrated April 17, 2023.

## **ASTM test Method F2547-18 14.2.3 Test Results**

		Attenuation			
Sample Designation	Number of Layers	60 kVp	90 kVp	110 kVp	130 kVp
NL-250 2850 GS MK ±	2	99.8%	97.4%	94.8%	91.7%

		Lead Equivalency (mm Pb)			
Sample Designation	Number of Layers	60 kVp	90 kVp	110 kVp	130 kVp
NL-250 2850 GS MK ±	2	0.54*	0.56	0.49	0.43

<sup>\*</sup>This sample attenuates more than 99.5% of X-rays produced at this tube potential. This approaches the limits for accurately determining lead equivalency. The percent error for determining lead equivalency under these conditions is significantly higher than the percent error for samples with lower attenuation.

