

FIGURE 1A. Contact angle using Quartz Plate as Substrate - Water.

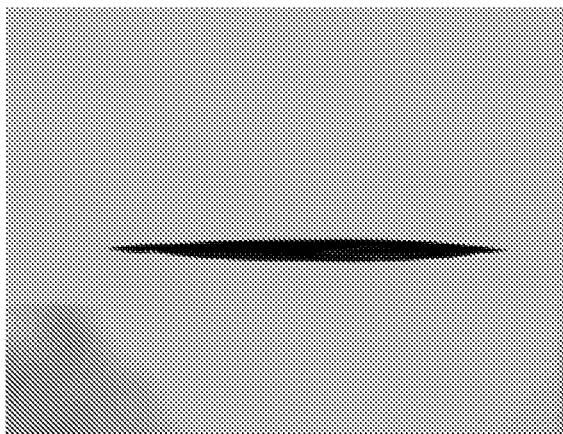


FIGURE 1B. Contact angle using Quartz Plate as Substrate - DermXTM Direct “Liquid Aspirin”.

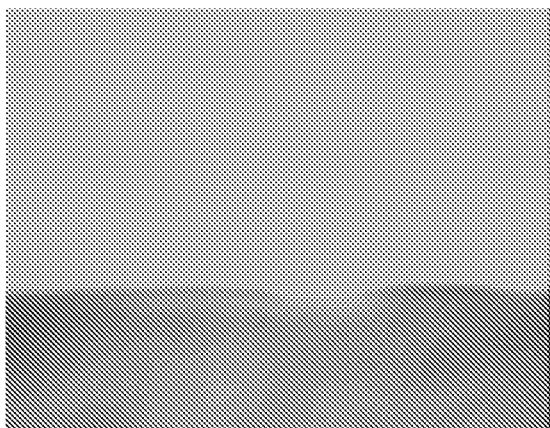


FIGURE 2A. Photomicrograph of Spreading using Quartz Plate as Substrate – Water. Each grid division equals 2 mm.

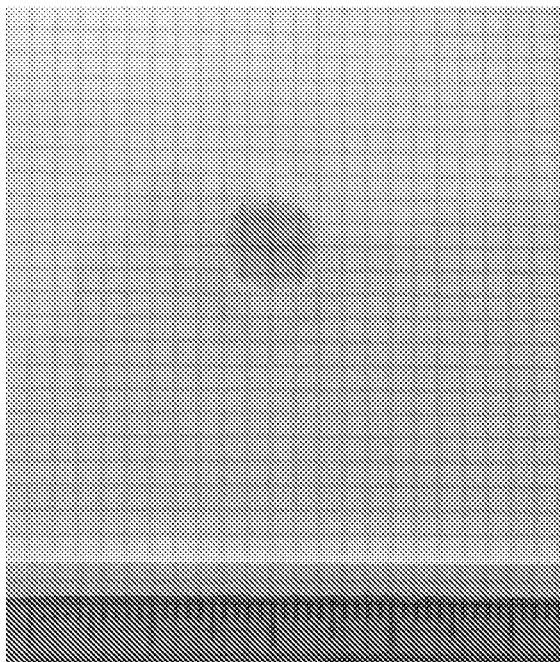


FIGURE 2B. Photomicrograph of Spreading using Quartz Plate as Substrate – DermXTM Direct “Liquid Aspirin”. Each grid division equals 2 mm.

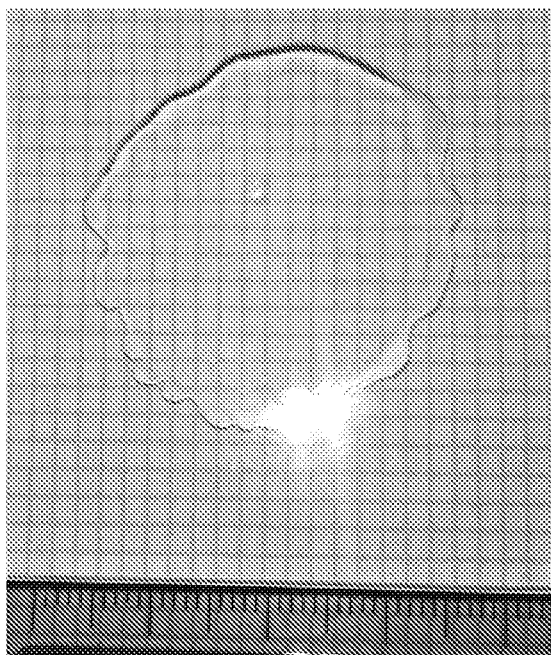


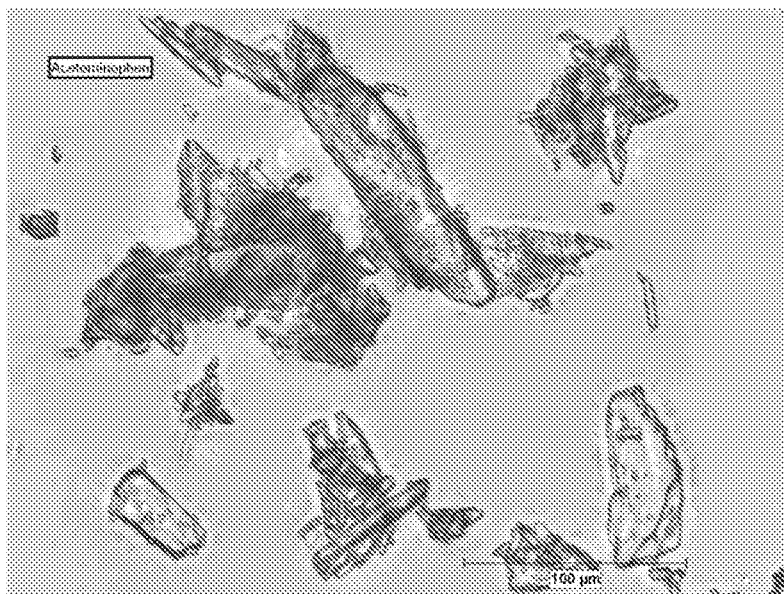
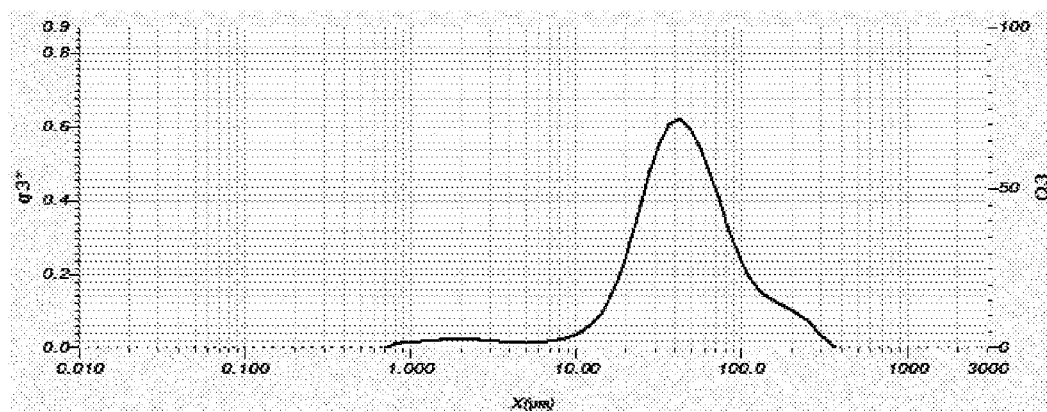
FIGURE 3A: Optical Image of Acetaminophen dry powder (400X magnification).**FIGURE 3B:** Particle Size Distribution of Acetaminophen suspension.

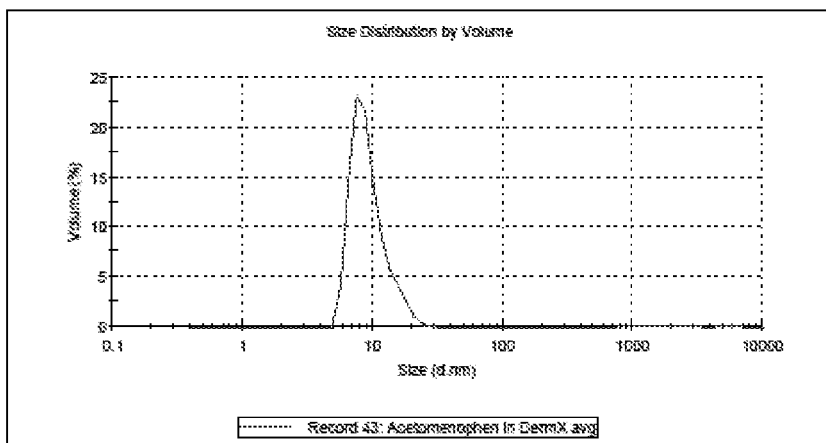
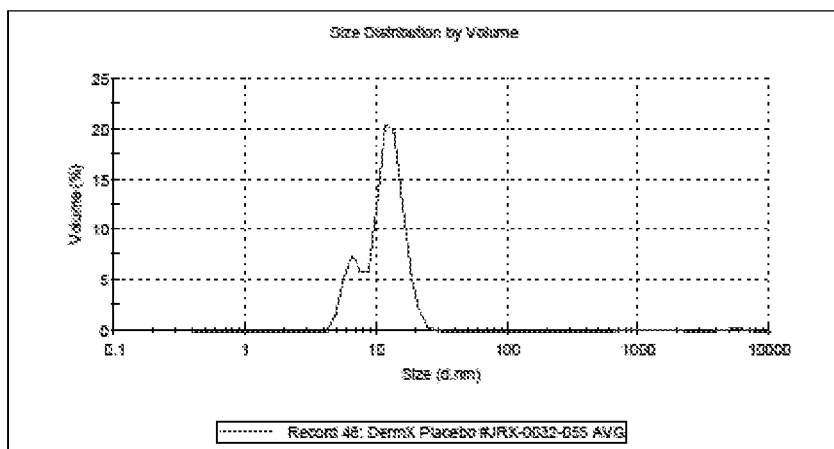
FIGURE 3C: Particle Size Distribution of “Liquid Acetaminophen”.**FIGURE 3D:** Particle Size Distribution of the DermX™ Megaspheres™ carrier system (“Placebo”).

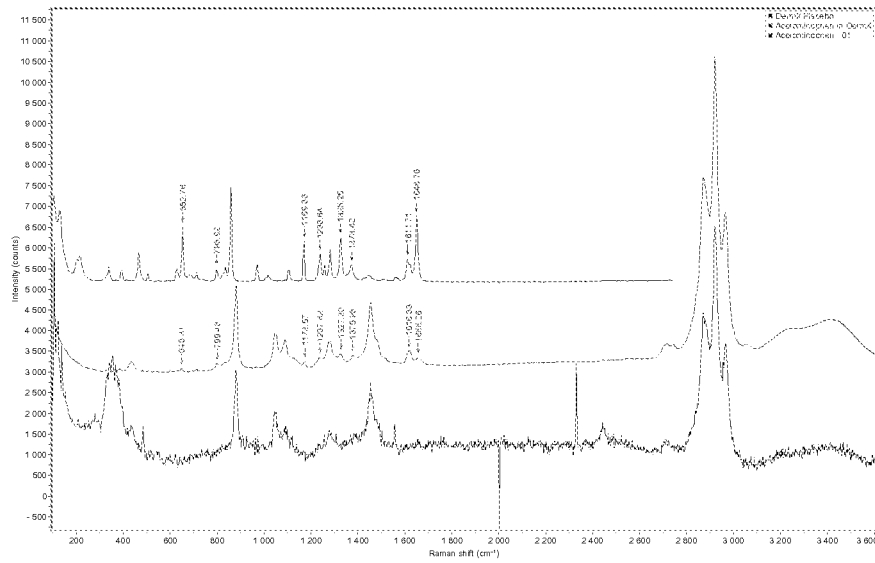
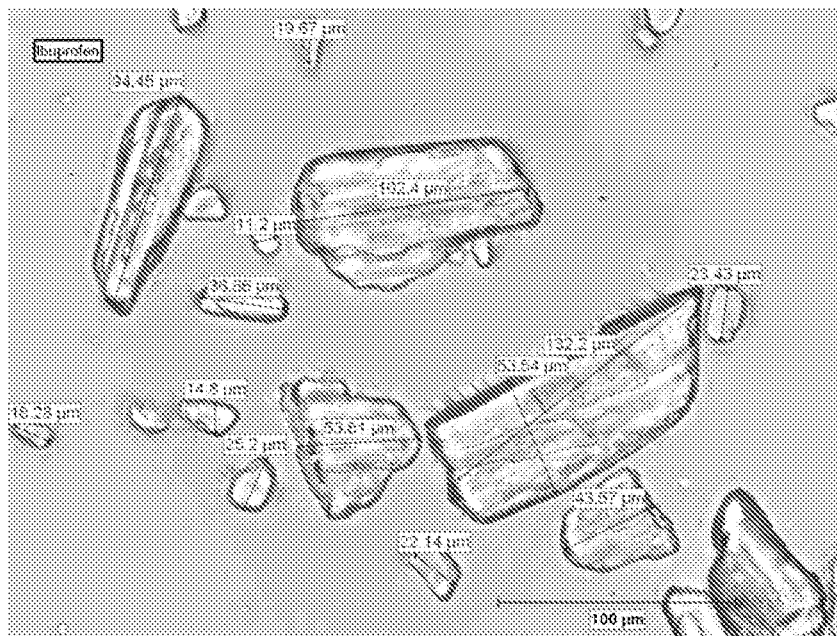
FIGURE 3E: Comparison of Raman Spectra.**FIGURE 4A:** Optical Image of Ibuprofen dry powder (400X magnification).

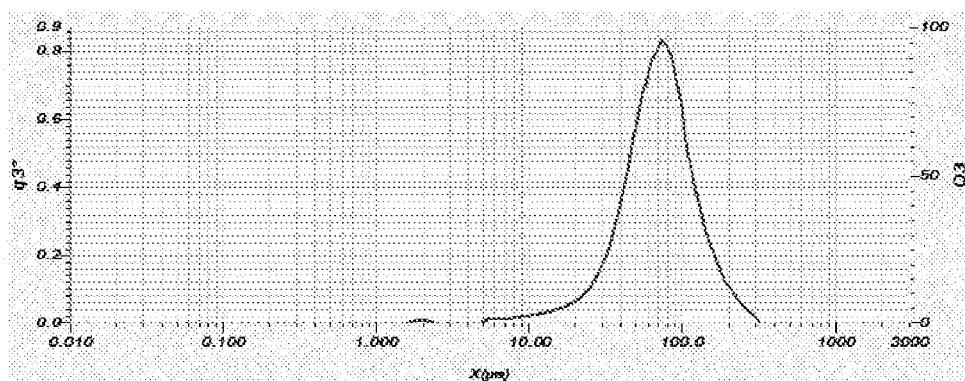
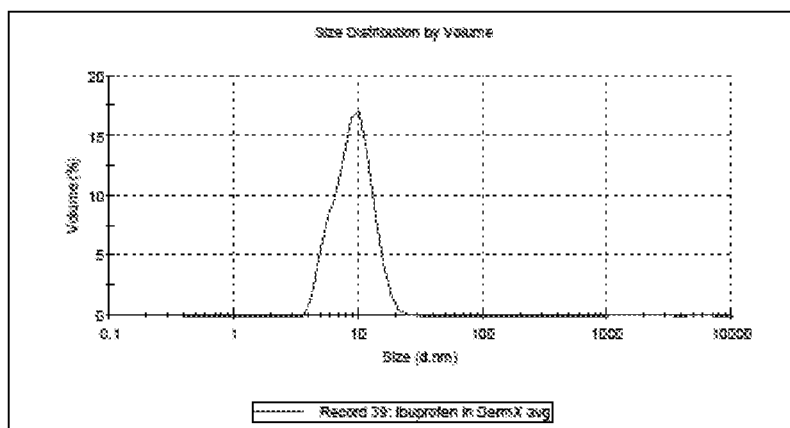
FIGURE 4B: Particle Size Distribution of Ibuprofen suspension.**FIGURE 4C:** Particle Size Distribution of “Liquid Ibuprofen”.

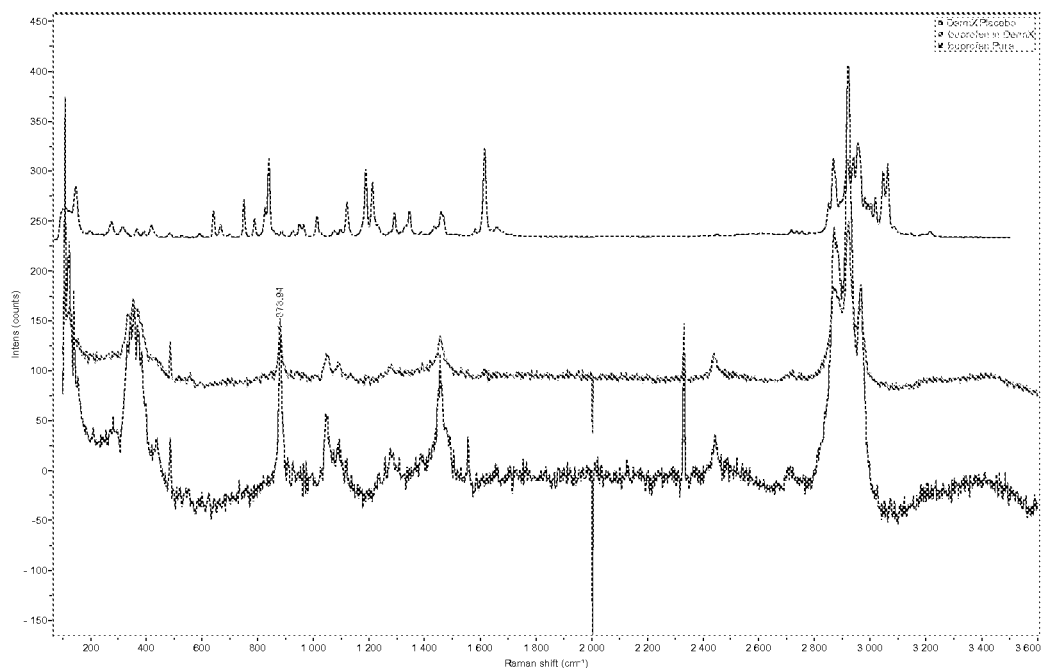
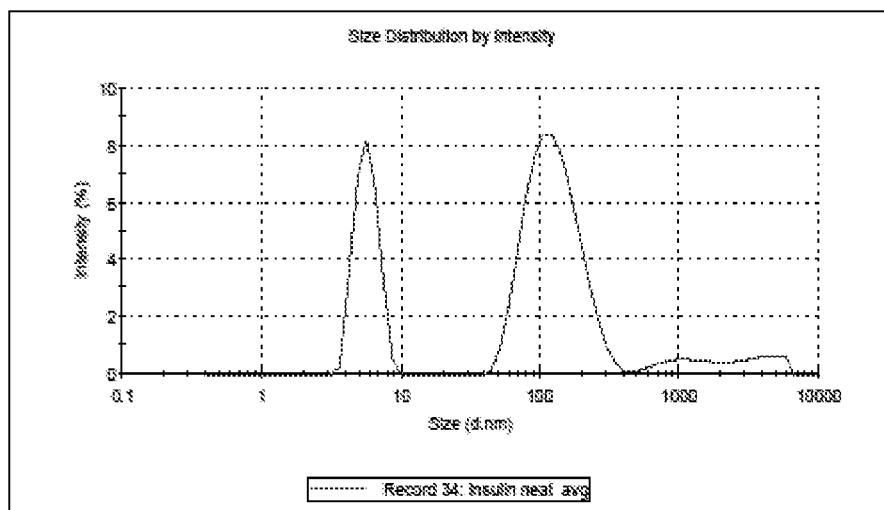
FIGURE 4D: Comparison of Raman Spectra.**FIGURE 5A:** Particle Size Distribution of Insulin solution.

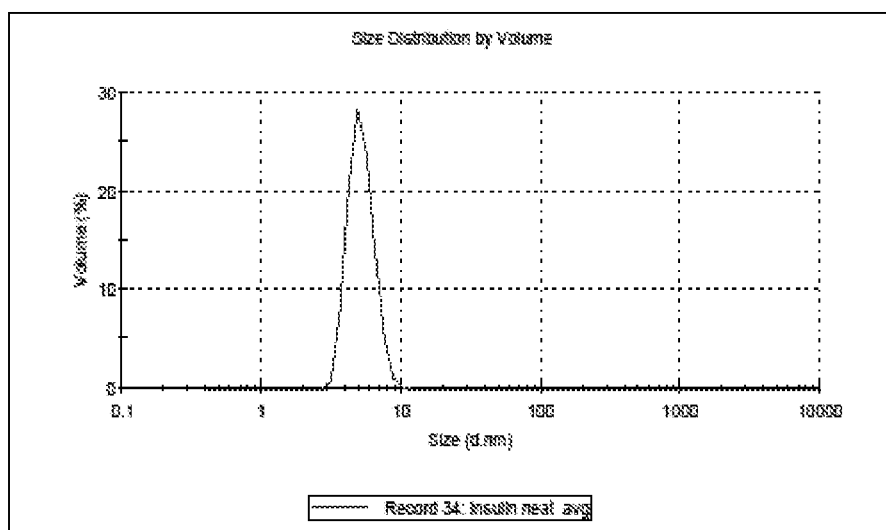
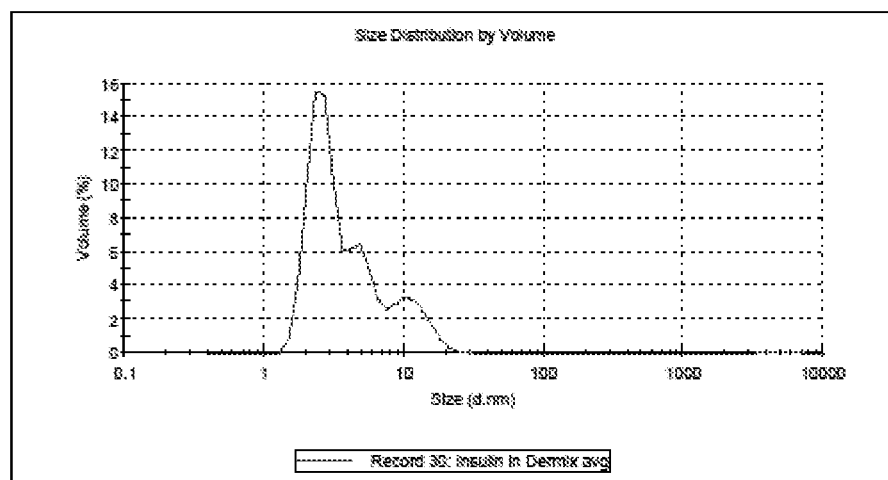
FIGURE 5B: Particle Size Distribution of Insulin suspension.**FIGURE 5C:** Particle Size Distribution of “Liquid Ibuprofen”.

FIGURE 6C: Particle Size Distribution of “Liquid Ketoprofen”.

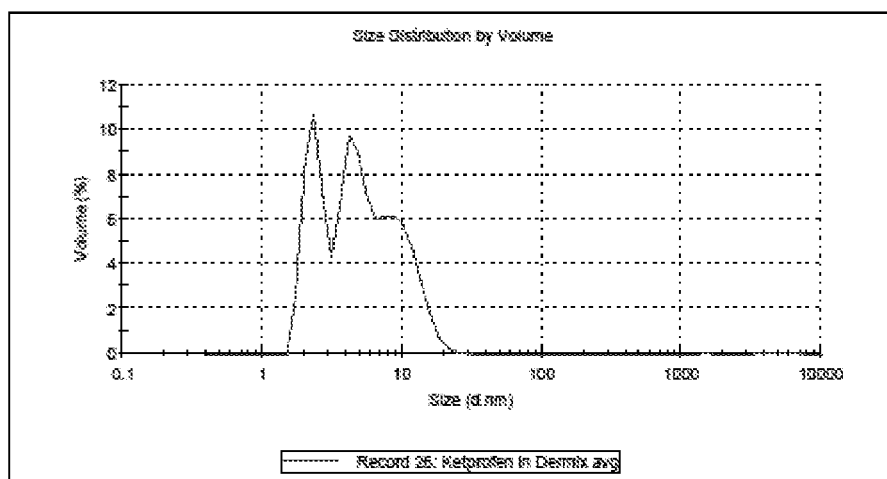


FIGURE 6D: Comparison of Raman Spectra.

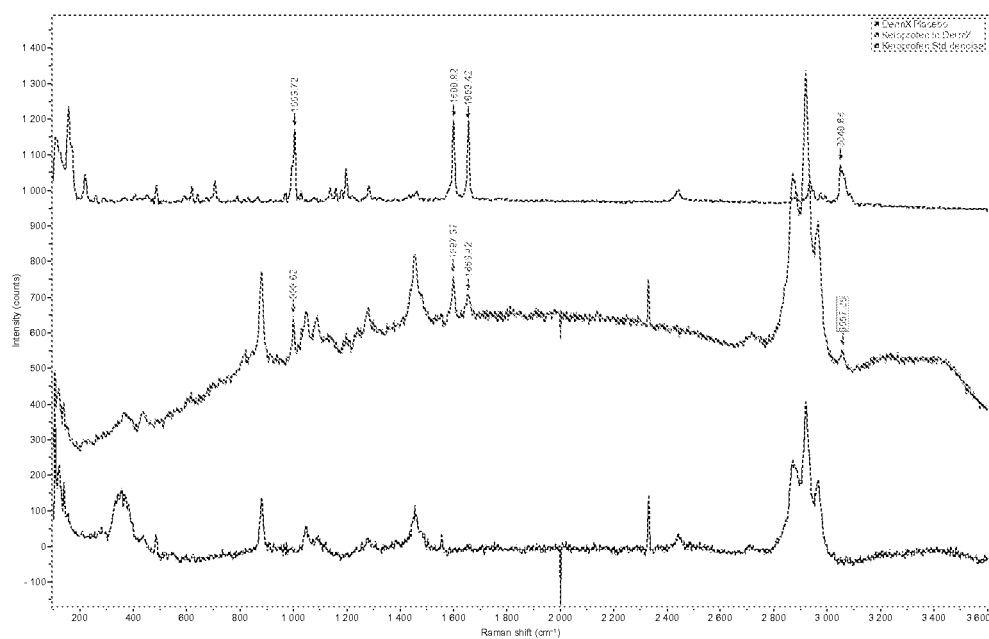


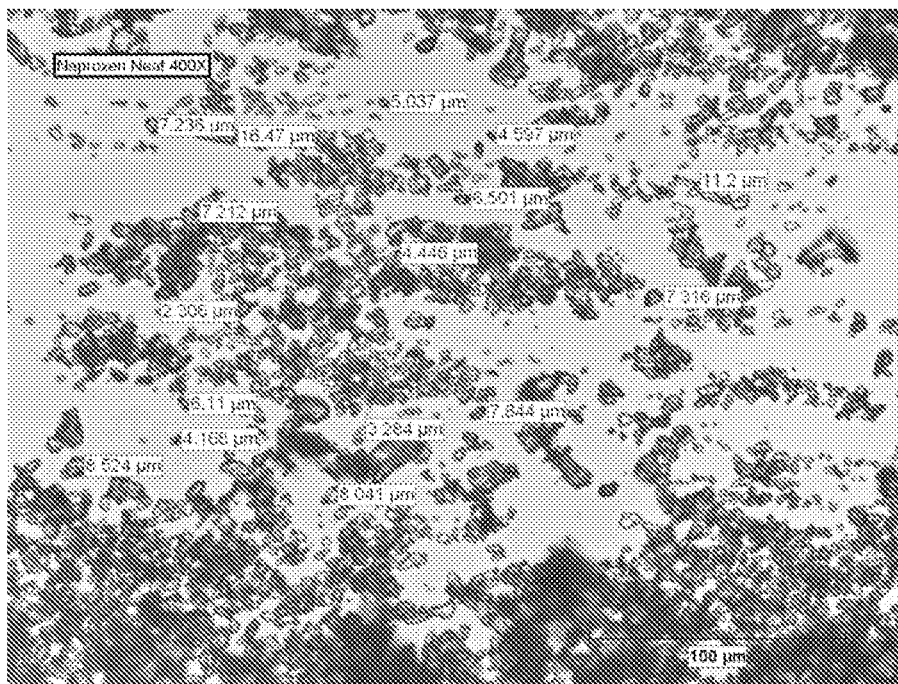
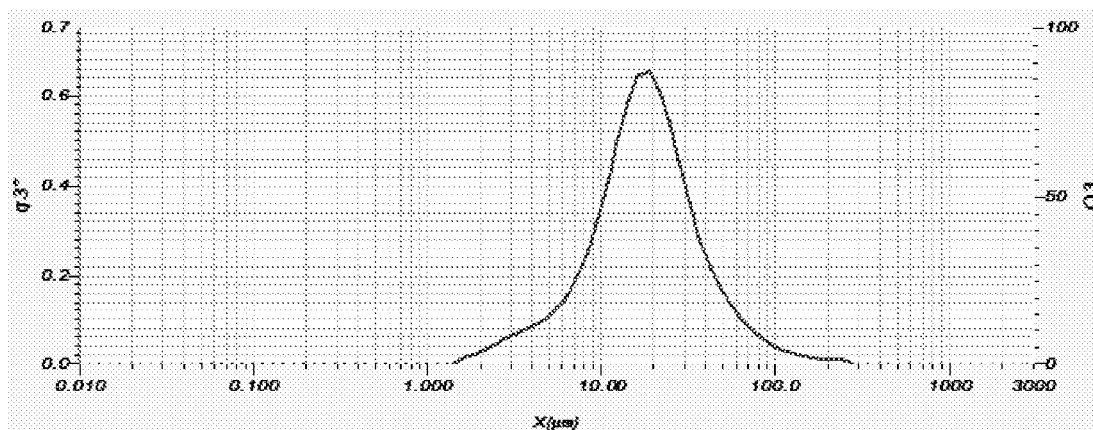
FIGURE 7A: Optical Image of Naproxen dry powder (400X magnification).**FIGURE 7B:** Particle Size Distribution of Naproxen suspension.

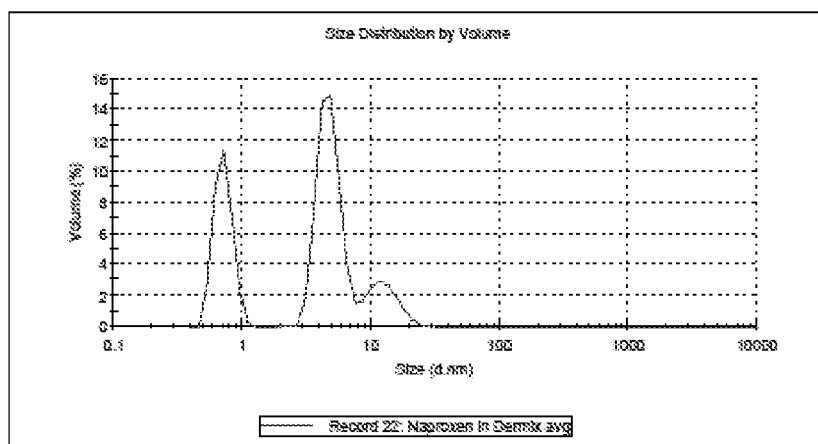
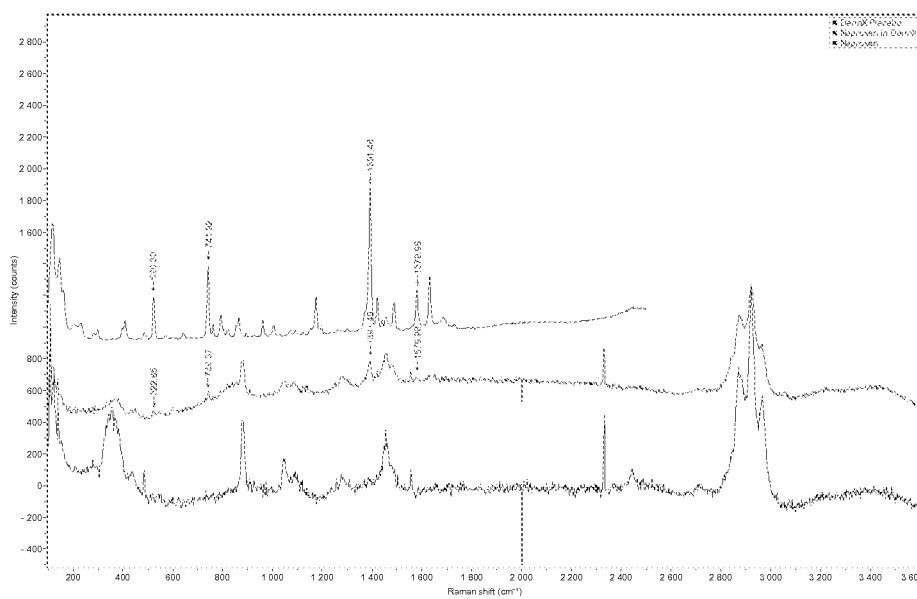
FIGURE 7C: Particle Size Distribution of “Liquid Naproxen”.**FIGURE 7D:** Comparison of Raman Spectra.

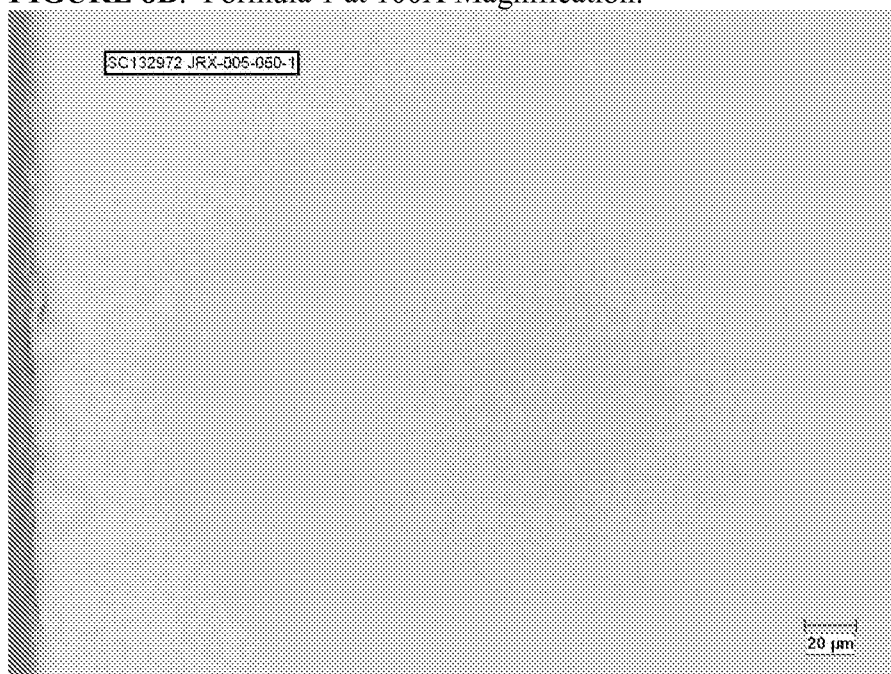
FIGURE 8A: Dry Aspirin at 100X Magnification.**FIGURE 8B:** Formula 1 at 100X Magnification.

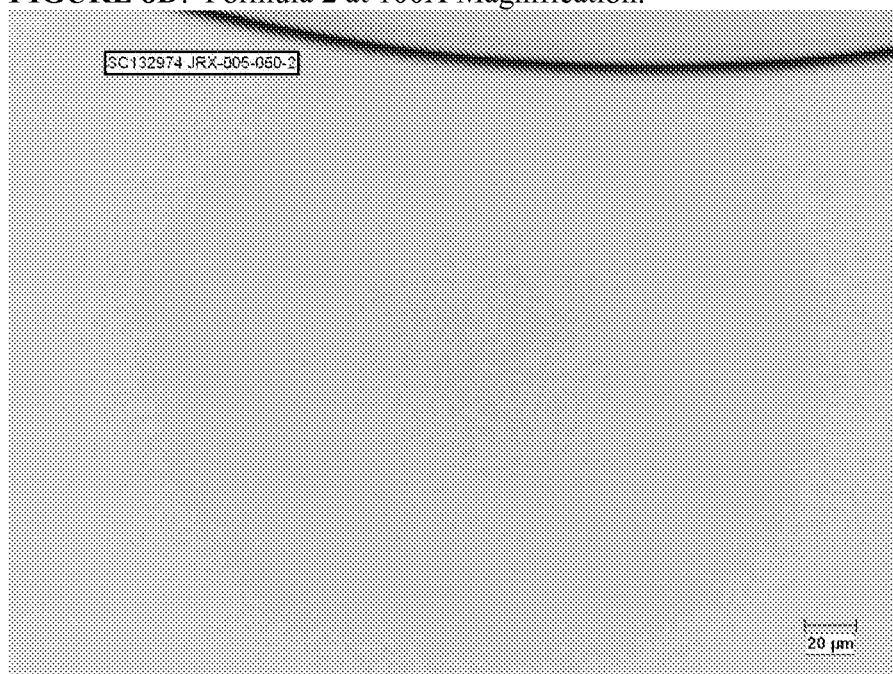
FIGURE 8C: Formula 1C at 100X Magnification.**FIGURE 8D:** Formula 2 at 100X Magnification.

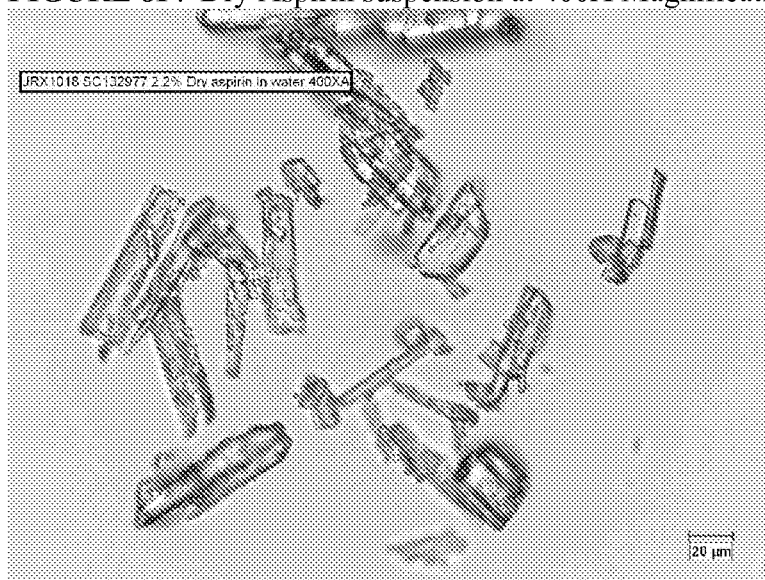
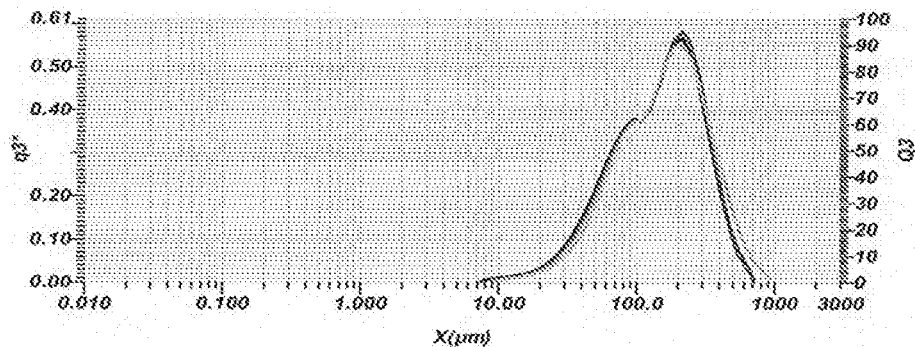
FIGURE 8E: Formula 3 at 100X Magnification.**FIGURE 8F:** Dry Aspirin suspension at 400X Magnification.

FIGURE 8G: Laser Diffraction Result for Dry Aspirin at 2.2% in Water.**HORIBA** Laser Scattering Particle Size Distribution Analyzer

Model Type : LA950WET
HGS No. : V00AP5G2



Data Name	Graph Type	Sample Name	Median Size	D10	D90
201312101511909		2.2% Aspirin in Water	152.89685(μm)	47.66365(μm)	339.36611(μm)
201312101513910		2.2% Aspirin in Water	157.19641(μm)	50.56836(μm)	340.46517(μm)
201312101515911		2.2% Aspirin in Water	165.80750(μm)	54.93650(μm)	387.00565(μm)

Data Name	Sample Name	Transmittance(B)	Transmittance(R)	Mean Size
201312101511909	2.2% Aspirin in Water	60.8(%)	53.8(%)	176.17526(μm)
201312101513910	2.2% Aspirin in Water	73.4(%)	59.1(%)	179.11281(μm)
201312101515911	2.2% Aspirin in Water	76.6(%)	63.9(%)	197.83107(μm)