



## Synthetopes Inc.

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TEST REPORT: In-111 Removal

Equipment:

Indium-111 chloride liquid  
Capintec CRC 15 dose calibrator calibrated for In-111  
Linoleum Tile (Unwaxed)  
Stainless Steel coupon (4"x4")  
Painted steel coupon (4"x4")  
Shielded glove box  
Plastic backed wipe (cut to 4"x4")  
Plastic bags  
Water proof gloves

Solutions:

1. Quick Decon Mass Effect Solution TM (Transition Metal)
2. Tap Water
3. Tap Water with Dawn Detergent ( 5 drops per 500cc.)

Procedure:

1. Place 3 coupons of each, linoleum, stainless steel, and painted steel, in glove box.
2. Dispense approximately 50 micro Ci/ coupon and allow to dry overnight.
3. Spray on test solution and immediately wipe with plastic backed wipe
4. Place wipe in plastic bag and label with coupon type and solution.
5. Measure wipe and coupon in dose calibrator (fold coupon with contamination side out), record results.

Results:

Quick Decon TM	Coupon after decontamination	Wipe
Linoleum	3 micro Ci	48 micro Ci
Stainless Steel	1 micro Ci	50 micro Ci
Painted Steel	2 micro Ci	50 micro Ci

Tap Water	Coupon after decontamination	Wipe
Linoleum	40 micro Ci	11 micro Ci
Stainless Steel	45 micro Ci	4 micro Ci
Painted Steel	43 micro Ci	5 micro Ci

Tap Water + Dawn	Coupon after decontamination	Wipe
Linoleum	42 micro Ci	8 micro Ci
Stainless Steel	47 micro Ci	4 micro Ci
Painted Steel	45 micro Ci	6 micro Ci

Conclusion:

Quick Decon TM removed 96-99% of the In-111. Tap water and Tap water plus detergent removed at most 20%.

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