

QUALITY ASSURANCE DEPARTMENT

Revision No.: 00	Document Number:	Effective Date:		
Document Name: Annexure-5 (Calculation of contamination limit)				

Annexure-5 Calculation of Contamination Limit



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Product contact surface area of equipments for each product:

Equipment Name	Surface area	of equipment	Misoprostol	Levonorgestrel	Mifepristone	Norethindrone
	Sq. m	Sq.cm				
RM sampling, dispensing, blending & sieving isolator	0.05	500	V	X	V	X
Fluid bed dryer	4.3680	43680	X	V	V	V
Rapid mixer granulator	2.4058	24058	X	V	V	√
Vibrosifter	2.3175	23175	√	V	V	V
Blender bin (100 L)	8.9544	89544	√	V	V	√
Tablet compression machine	0.630629	6306.29	√	V	√	V
Deduster	0.5713	5713	√	V	V	V
Metal detector	0.1428	1428	√	V	V	V
Glove box	0.3176	3176	√	V	V	V
Paste kettle	0.2953	2953	X	X	V	X
Blister machine	0.8503	8503	X	V	X	V
Tipper	0.576	5760	X		√	V
B-coater	4.56323	45632.3	X	V	X	X
Cone mill	0.4345	4345	X	V		V
Blister machine (Alu-Alu)	0.2931	2931	√	X	√	X
Scoops	0.1356	1356	V	V	V	V
Sampling rod	0.0472	472	V	V	V	V
Spatula	0.0063	63		$\sqrt{}$		
Spatula	0.04625	462.5	X	X	X	X



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1.0 10 ppm criteria:

$MAR (mg/swab) = \underbrace{10 \ X \ Min. \ batch \ size \ of \ next \ product \ B \ (in \ kg) \ X \ swab \ surface \ area \ (in \ cm^2)}_{1 \ x \ Total \ surface \ area \ of \ equipment \ (in \ cm^2)}$

Sr.	Product	MAR calculation:
No.		
1	I-Pill / Unwanted -72	$MAR = 10 \times 42 \times 100 = 0.159 \text{ mg/swab} = 159 \text{ µg/swab}$
		1 x 263211.59
2	Pillarnor-2	$MAR = 10 \times 28 \times 100 = 0.106 \text{ mg/swab} = 106 \mu\text{g/swab}$
		1 x 263211.59
3	Misoclear / Mifecon M Kit / Herwont Kit /	$MAR = 10 \times 41 \times 100 = 0.304 \text{ mg/swab} = 304 \text{ µg/swab}$
	Mariprist / Seguro Kit (Misoprostol)	1 x 134664.29
4	Misoclear / Mifecon M Kit / Herwont Kit /	$MAR = 10 \times 14.35 \times 100 = 0.066 \text{ mg/swab} = 66 \text{ µg/swab}$
	Mariprist / Seguro Kit (Mifepristone)	1 x 215460.29
5	Regestrone Tablets	$MAR = 10 \times 42 \times 100 = 0.193 \text{ mg/swab} = 193 \mu \text{g/swab}$
	_	1 x 217579.29



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2.0 Dose Criteria:

Calculation of the maximum allowable residue:

MAR (μ g/swab) = LRDD of previous product (A) x SBS of next product (B) x SSA x 1000 x1000x1000 1000 x MRDD of next product (B) x TSA

LRDD: Lowest Recommended Daily Dose (in mg)
MRDD: Maximum Recommended Daily Dose (in mg)
SBS: Smallest Batch Size of next product (in kg)

SSA: Swab surface area (in cm²)

TSA: Total Surface area of equipment (product contact part) (in cm²)

Sr.No. | Maximum Allowable Residual Concentration (MAR)



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1 Maximum Allowable Residual Concentration (MAR) of Misoprostol in a batch of Mifepristone is calculated as follows:

Product	Misoprostol Tablets (Product A)	Mifepristone Tablets (Product B)
Strength	0.20 mg	200 mg
Batch size	41.00 kg	14.35 kg
Lowest recommended daily dose (LRDD)	0.025 mg	25 mg
Maximum recommended daily dose (MRDD)	0.20 mg	600 mg
Common total surface area of equipments	134664.29cm²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $MAR = \underline{LRDD \text{ of previous product (A) x SBS of next product (B) x SSA x 1000 x 1000 x 1000}} = \underline{0.025 \text{ x } 14.35 \text{ x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000}} = \underline{1000 \text{ x MRDD of next product (B) x TSA}}$

 $= 0.444 \mu g/swab$

2 Maximum Allowable Residual Concentration (MAR) of Misoprostol in a batch of Levonorgestrel is calculated as follows:

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Product	Misoprostol Tablets (Product A)	Levonorgestrel Tablets (Product B)
Strength	0.20 mg	1.5 mg
Batch size	41.00 kg	42.00 kg (Smallest batch size is 28.0 kg)
Lowest recommended daily dose (LRDD)	0.025 mg	0.03 mg
Maximum recommended daily dose (MRDD)	0.20 mg	1.5 mg
Common total surface area of equipments	131233.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $= 355 \mu g/swab$



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3 Maximum Allowable Residual Concentration (MAR) of Misoprostol in a batch of Norethindrone is calculated as follows:

Product	Misoprostol Tablets (Product A)	Norethindrone Tablets (Product B)	
Strength	0.20 mg	5 mg	
Batch size	41.00 kg	42.00 kg	
Lowest recommended daily dose (LRDD)	0.025 mg	0.35 mg	
Maximum recommended daily dose (MRDD)	0.20 mg	5 mg	
Common total surface area of equipments	131233.29 cm ²		
Swab surface area (cm²)	100 cm ²		
Safety factor	1/1000		

 $MAR = \underline{LRDD \text{ of previous product (A) } x \text{ SBS of next product (B) } x \text{ SSA } x1000x1000x1000} = \underline{0.025x42x100x1000x1000x1000} = \underline{1000x5x131233.29}$

 $= 160 \mu g/swab$



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4 Maximum Allowable Residual Concentration (MAR) of Mifepristone Tablet in a batch of Misoprostol Tablet is calculated as follows:

Product	Mifepristone Tablet (Product A)	Misoprostol Tablets (Product B)
Strength	200 mg	0.20 mg
Batch size	14.35 kg	41.00 kg
Lowest recommended daily dose (LRDD)	25 mg	0.025 mg
Maximum recommended daily dose (MRDD)	600 mg	0.20 mg
Common total surface area of equipments	134664.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $\begin{aligned} \text{MAR} &= \underline{\text{LRDD of previous product (A)}} & \text{ x SBS of next product (B)} & \text{ x SSAx} 1000 \text{x } 1000 \text{ x } 1000 \text{ } = \\ & 1000 \text{ x MRDD of next product (B) x TSA} \end{aligned} = \underbrace{25 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}_{1000 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000} = \underbrace{1000 \text{x} 0.20 \text{x} 134664.29}_{1000 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}_{1000 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000} = \underbrace{1000 \text{x} 0.20 \text{x} 134664.29}_{1000 \text{x} 1000 \text{x} 10000 \text{x} 1000 \text{x} 1000 \text{x} 10000 \text{x} 10000 \text{x} 1000 \text{x} 10000 \text{x} 1000 \text{$

 $= 3805760.23 \mu g/swab$



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5 Maximum Allowable Residual Concentration (MAR) of Mifepristone Tablet in a batch of Levonorgestrel Tablet is calculated as follows:

Product	Mifepristone Tablet (Product A)	Levonorgestrel Tablets (Product B)	
Strength	200 mg	1.5 mg	
Batch size	14.35 kg	42.00 kg (Smallest batch size is 28.0 kg)	
Lowest recommended daily dose (LRDD)	25 mg	0.03 mg	
Maximum recommended daily dose (MRDD)	600 mg	1.5 mg	
Common total surface area of equipments	209076.29 cm ²		
Swab surface area (cm²)	100 cm ²		
Safety factor	1/1000		

 $= 223204.01 \mu g/swab$



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6 Maximum Allowable Residual Concentration (MAR) of Mifepristone Tablet in a batch of Norethindrone Tablet is calculated as follows:

Product	Mifepristone Tablet (Product A)	Norethindrone Tablets (Product B)	
Strength	200 mg	5 mg	
Batch size	14.35 kg	42.00 kg	
Lowest recommended daily dose (LRDD)	25 mg	0.35 mg	
Maximum recommended daily dose (MRDD)	600 mg	5 mg	
Common total surface area of equipments	209076.29 cm ²		
Swab surface area (cm²)	100 cm ²		
Safety factor	1/1000		

 $MAR = \underline{LRDD \text{ of previous product (A)} \text{ x SBS of next product (B) x SSA x} 1000x1000 \text{ x } 1000} = \underline{25x42x100x1000x1000x1000} = 1000x5x209076.29} = \underline{1000x5x209076.29}$

 $= 100441.8 \mu g/swab$



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7 Maximum Allowable Residual Concentration (MAR) of Levonorgestrel Tablet in a batch of Misoprostol Tablet is calculated as follows:

Product	Levonorgestrel Tablet (Product A)	Misoprostol Tablets (Product B)
Strength	1.5 mg	0.20 mg
Batch size	42.00 kg	41.00 kg
Lowest recommended daily dose (LRDD)	0.03 mg	0.025 mg
Maximum recommended daily dose (MRDD)	1.5 mg	0.20 mg
Common total surface area of equipments	131233.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $=4686.31 \mu g/swab$



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PHARMA DEVILS

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Maximum Allowable Residual Concentration (MAR) of Levonorgestrel Tablet in a batch of Mifepristone Tablet is calculated as follows:

Product	Levonorgestrel Tablet (Product A)	Mifepristone Tablet (Product B)
Strength	1.5 mg	200 mg
Batch size	42.00 kg	14.35 kg
Lowest recommended daily dose (LRDD)	0.03 mg	25 mg
Maximum recommended daily dose (MRDD)	1.5 mg	600 mg
Common total surface area of equipments	209076.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $MAR = \underline{LRDD \text{ of previous product (A)} \text{ x SBS of next product (B)} \text{ x SSA} \text{ x} 1000 \text{x} 1000 \text{ x } 1000} = \underline{0.03 \text{x} 14.35 \text{x} 100 \text{x} 1000 \text{x} 1000} = \underline{0.03 \text{x} 14.35 \text{x} 100 \text{x} 1000 \text{x} 1000} = \underline{1000 \text{x} 600 \text{x} 209076.29}$

 $= 0.343 \mu g/swab$



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9 Maximum Allowable Residual Concentration (MAR) of Levonorgestrel Tablet in a batch of Norethindrone Tablet is calculated as follows:

Product	Levonorgestrel Tablet (Product A)	Norethindrone Tablets (Product B)
Strength	1.5 mg	5 mg
Batch size	42.00 kg	42.00 kg
Lowest recommended daily dose (LRDD)	0.03 mg	0.35 mg
Maximum recommended daily dose (MRDD)	1.5 mg	5 mg
Common total surface area of equipments	217579.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $\begin{aligned} \text{MAR (mcg/swab)} &= \underbrace{\text{LRDD of previous product (A)} \quad x \text{ SBS of next product (B)} \quad x \text{ SSAx} \\ 1000 \text{ x MRDD of next product (B)} \quad x \text{ TSA} \end{aligned} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of next product (B)}} \text{ x 1000} \\ & \underbrace{1000 \text{ x 1000}}_{\text{LRDD of$

 $=115.81~\mu g/swab$



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10 Maximum Allowable Residual Concentration (MAR) of Norethindrone Tablet in a batch of Misoprostol Tablet is calculated as follows:

Product	Norethindrone Tablets (Product A)	Misoprostol Tablets (Product B)
Strength	5 mg	0.20 mg
Batch size	42.00 kg	41.00 kg
Lowest recommended daily dose (LRDD)	0.35 mg	0.025 mg
Maximum recommended daily dose (MRDD)	5 mg	0.20 mg
Common total surface area of equipments	131233.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $\begin{aligned} \text{MAR} &= \underline{\text{LRDD of previous product (A)}} & \text{ x SBS of next product (B)} & \text{ x SSA} & \text{x} 1000 \text{x} 1000 \text{ x } 1000 \end{aligned} \\ & 1000 \text{ x MRDD of next product (B)} \text{ x TSA} \end{aligned} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{ x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 131233.29}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 1000 \text{x} 1000}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 100 \text{x} 1000 \text{x} 1000 \text{x} 1000}{1000 \text{x} 0.20 \text{x} 1000}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 1000 \text{x} 1000 \text{x} 1000}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 1000 \text{x} 1000 \text{x} 1000}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 1000 \text{x} 1000 \text{x} 1000}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 1000 \text{x} 1000 \text{x} 1000}} = \underbrace{\frac{0.35 \text{x} 41 \text{x} 1000 \text{x} 1000 \text{x} 1000}} = \underbrace{\frac{0.35 \text{x} 41 \text{x}$

 $= 54673.62 \mu g/swab$



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Maximum Allowable Residual Concentration (MAR) of Norethindrone Tablet in a batch of Mifepristone Tablet is calculated as follows:

Product	Norethindrone Tablets (Product A)	Mifepristone Tablet (Product B)
Strength	5 mg	200 mg
Batch size	42.00 kg	14.35 kg
Lowest recommended daily dose (LRDD)	0.35 mg	25 mg
Maximum recommended daily dose (MRDD)	5 mg	600 mg
Common total surface area of equipments	209076.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $\begin{aligned} \text{MAR} &= \underline{\text{LRDD of previous product (A)}} & \text{ x SBS of next product (B)} & \text{ x SSA } \text{x} 1000 \text{x} 1000 \text{ x } 1000 \text{ = } \\ & 1000 \text{ x MRDD of next product (B) x TSA} \end{aligned} \qquad \underbrace{0.35 \text{x} 14.35 \text{x} 100 \text{x} 1000 \text{x} 1000}_{0.00 \text{x} 1000 \text{x} 1000} = \\ & 1000 \text{x} 600 \text{ x} 209076.29}$

 $= 4.003 \mu g/swab$



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12 Maximum Allowable Residual Concentration (MAR) of Norethindrone Tablet in a batch of Levonorgestrel Tablet is calculated as follows:

Product	Norethindrone Tablets (Product A)	Levonorgestrel Tablets (Product B)
Strength	5 mg	1.5 mg
Batch size	42.00 kg	42.00 kg (Smallest batch size is 28.0 kg)
Lowest recommended daily dose (LRDD)	0.35 mg	0.03 mg
Maximum recommended daily dose (MRDD)	5 mg	1.5 mg
Common total surface area of equipments	217579.29 cm ²	
Swab surface area (cm²)	100 cm ²	
Safety factor	1/1000	

 $\begin{aligned} \text{MAR (mcg/swab)} &= \underline{\text{LRDD of previous product (A)}} & \text{x SBS of next product (B)} & \text{x SSAx} 1000 \text{x} 1000 \text{ x } 1000 \text{ x } 1000 \text{x } 10000 \text{x } 1000 \text{x } 10000 \text{x } 1000 \text{x } 1000 \text{x } 10000 \text{x } 1000 \text{x } 10000 \text{x } 1$



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Sr. No.	Possible product changeovers	Common surface area	MAR	
		(Sq.cm)		
1	Misoprostol-Mifepristone	134664.29	0.444 μg/swab	
2	Misoprostol-Levonorgestrel	131233.29	355 μg/swab	
3	Misoprostol-Norethindrone	131233.29	160 μg/swab	
4	Mifepristone-Misoprostol	134664.29	3805760.23 µg/swab	
5	Mifepristone-Levonorgestrel	209076.29	223204.01 µg/swab	
6	Mifepristone-Norethindrone	209076.29	100441.8 μg/swab	
7	Levonorgestrel-Misoprostol	131233.29	4686.31 µg/swab	
8	Levonorgestrel-Mifepristone	209076.29	0.343 μg/swab	
9	Levonorgestrel-Norethindrone	217579.29	115.81 μg/swab	
10	Norethindrone-Misoprostol	131233.29	54673.62 μg/swab	
11	Norethindrone-Mifepristone	209076.29	4.003 μg/swab	
12	Norethindrone-Levonorgestrel	217579.29	4504.10 μg/swab	

Limit to follow:



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Calculate the final results t	for residual conta	amination using following formula:						
Amount of API in ppm =	•	om swab x Weight of standard x 2 x 5 (solution taken for s	•					
	Average area of	standard x 100 x 100 x 1 x 100 x Recovery factor (0.89)						
Conclusion:								
Checked By: (Signature/Date)		Verified By: (Signature/Date)		Approved By: (Signature/Date)				
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