## A APPENDIX

## A.1 HYPERPARAMETER CONFIGURATION OF SEFAR

	EuroSAT	ISIC	ChestX	CropDisease	CIFAR-10
Baseline	$\lambda=5,t=10,s=0.3$	$\lambda=1,t=1,s=0.8$	$\lambda=1,t=1,s=0.8$	$\lambda=5,t=10,s=0.3$	$\lambda=5,t=5,s=0.3$
linear probing	$\lambda=5, t=1, s=0.3$	$\lambda=5,t=1,s=0.3$	$\lambda=5,t=1,s=0.3$	$\lambda=5,t=5,s=0.3$	$\lambda=5,t=1,s=0.3$
L2-SP	$\lambda=5,t=10,s=0.3$	$\lambda=0.5, t=5, s=0.8$	$\lambda=5,t=10,s=0.8$	$\lambda=5,t=10,s=0.3$	$\lambda=5,t=5,s=0.9$
DELTA	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=1,s=0.3$
Surgical tuning	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=1,s=0.3$

Table 5: SEFAR's hyperparameter configuration of Table [].  $\lambda$  represents the weight of  $L_3$ , t means the distillation temperature coefficient and s means the sparsity of M.

	EuroSAT	ISIC	CropDisease	ChestX
Baseline	$\lambda=5,t=2,s=0.6$	$\lambda=5,t=2,s=0.6$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.6$
linear probing	$\lambda=5,t=2,s=0.6$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.6$	$\lambda=5,t=2,s=0.6$

	EuroSAT	ISIC	CropDisease	ChestX
Baseline	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.3$	$\lambda=5,t=2,s=0.6$	$\lambda=5,t=1,s=0.6$
linear probing	$\lambda=5,t=1,s=0.8$	$\lambda=5,t=2,s=0.6$	$\lambda=5,t=2,s=0.6$	$\lambda=5,t=2,s=0.6$

Table 6: SEFAR's hyperparameter configuration of Table 2.Above: 5-way 1-shot. Below: 5-way5-shot.