

TABLE 1.1 Overview of BG/Chitosan Coatings via EPD—cont'd

Type of BG	Amount of BG	Size of BG	Polymer	Addition	Suspension Solvent	EPD Parameter	Substrate Material	Coating Thickness	Source
45S5	1.25 g/L	5–25 μm	0.5 g/L CS, 0.5 g/L Alg, 5 g/L PVA	nZO	79 vol% EtOH, 20 vol% DI, 1 vol% AA	25V, 1 min	SS		Karbowniczek et al. (2017)
85SiO ₂ -15CaO (mol%)	5–20 wt%	50–100 nm	1 g/L CS	Na-ampicillin	EtOH-DI (25% v/v water), 1% AA	20–80V, \leq 8 min	Ti	12–48 μm	Patel et al. (2014)
45S5	0.5 g/L	100 nm	0.5 g/L CS flakes	Vancomycin	Aqueous solution +1% (v/v) glacial AA	15V, 10 min	Ti foils	$\sim 55 \pm 6 \mu\text{m}$	Ordikhani and Simchi (2014)
45S5	5 mg/mL	9.8 μm	0.5 g/LCS	Gentamicin	DI + 1 vol% AA	10V, 400, 800 s	SS		Pishbin et al. (2014)
45S5	2 g/L	2 μm	0.5 g/L CS	Tetracycline hydrochloride + halloysite nanotubes	1 vol% AA, 75 vol% DI, EtOH	40V, 30 s	SS	4 μm	Radda'a et al. (2017)

AA, acetic acid; Alg, alginate; CS, chitosan; DI, de-ionized water; HA, hydroxyapatite; PEEK, polyether ether ketone; PVA, polyvinyl alcohol; SS, stainless steel.