



Mi Universidad

Aminoácidos

Carlos Adrián Álvarez López

Parcial 3

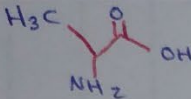
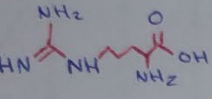
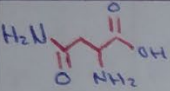
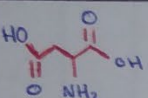
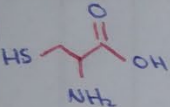
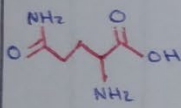
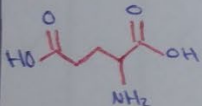
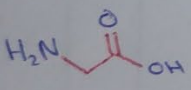
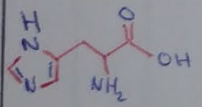
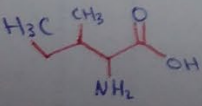
Bioquímica

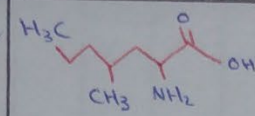
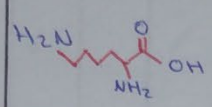
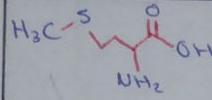
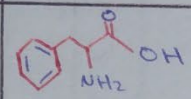
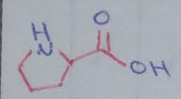
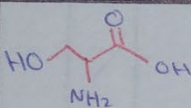
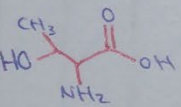
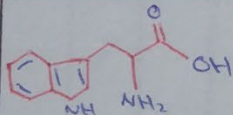
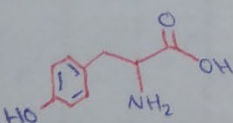
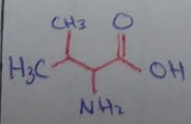
Qfb. Alexis Antonio Narváez

Licenciatura en Medicina Humana

Semestre I

Comitán de Domínguez, Chiapas, a 17/11/23

Aminoácido	Abreviatura	Estructura química	Esen- cial	No Esen- cial	Polar	No Polar	Funciones	Observación	Grupo R
Alanina	Ala			✓		✓	Síntesis de proteínas	Alifática	-CH ₃
Arginina	Arg		✓		✓		Síntesis de proteínas, vasos sanguíneos	Básica	(CH ₂) ₃ - NH- C(NH ₂)- (CH ₂) ₄ -
Asparagina	Asn			✓	✓		Transporte de nitrógeno en la sangre	Polar, amida	-CH ₂ CONH ₂
Ácido aspártico	Asp			✓	✓		Funciona como neuro- transmisor	Ácido	-CH ₂ COOH
Cisteína	Cys			✓	✓		Formación de puentes de disulfuro	contiene azufre	-CH ₂ SH
Glutamina	Gln			✓	✓		Transporta nitrógeno en la sangre	Polar, amida	-CH ₂ CH ₂ CONH ₂
Ácido glutámico	Glu			✓	✓		Neurotransmisor y metabolismo	Ácido	-(CH ₂) ₂ COOH
Glicina	Gly			✓		✓	Componente de proteínas	La más simple	-H
Histidino	His		✓		✓		catalizador enzimático	Básica	-CH ₂ -CH=C- NH C(NH ₂)=NH ₂
Isoleucina	Ile		✓			✓	Precursor de glucosa	Alifática, Leucina similar	-CH(CH ₃) ₂

Aminoácido	Abreviatura	Esen cial	No Esen cial	Polar	No Polar	Estructura química	Funciones	Observación	Grupo R
Leucina	Leu	✓			✓		Componente de proteínas	alifática	$-(CH_2)_3-CH(CH_3)_2$
Lisina	Lys	✓		✓			Formación de colágeno	Básica alifática	$-(CH_2)_4-NH_2$
Metionina	MET	✓		✓			Inicia la síntesis de proteínas	Contiene azufre	$-(CH_2)_2-CH_2-S-CH_3$
Fenilalanina	Phe	✓			✓		Precursor de neurotransmisores	Aromática	$-C_6H_5$
Prolina	Pro		✓		✓		Estructura de proteínas	Cíclica	$-(CH_2)_2-CH_2-NH_2$
Serina	Ser		✓	✓			Metabolismo de lípidos y proteínas	hidroxilo, polar	$-CH_2OH$
Treonina	Thr	✓		✓			Metabolismo y función hepática	Polar, hidroxilo	$-CH(OH)CH_3$
Triptófano	Trp	✓			✓		Precursor de serotonina	Aromática	$-C_6H_5$
Tirosina	Tyr		✓		✓		Precursor de catecolaminas	aromática	$-C_6H_4OH$
Valina	Val	✓			✓		Precursor de energía	Alifática	$-(CH_3)_2-CH-CH(NH_2)-COOH$

