

TABLE 5. Amino acid compositions of rHb1.1 and typical *E. coli* proteins

Amino acid	No. of residues in rHb1.1	$\mu\text{mol/g}$ of rHb1.1	$\mu\text{mol/g}$ of <i>E. coli</i> protein (avg) ^a	% Change in distribution ^b
Ala	72	1,159	887	8
Arg	12	193	511	-16
Asn	18 ^c	290	416	-8
Asp	30	483	416	4
Cys	6	97	158	-10
Glu	24	386	455	-4
Gln	8	129	455	-18
Gly	41	660	1,058	-9
His	38	612	164	68
Ile	0	0	502	-25
Leu	72 ^c	1,159	778	12
Lys	46 ^c	741	593	6
Met	9 ^c	145	265	-11
Phe	30 ^c	483	320	13
Pro	28	451	382	5
Ser	32	515	373	10
Thr	32 ^c	515	438	4
Trp	6	97	98	-0
Tyr	12	193	238	-5
Val	59 ^c	950	731	7
Total	575	9,258	9,238	0

^a Calculated by using the data of Neidhardt and Umbarger (14).

^b Percent change in amino acid distribution in the total protein of *E. coli* cells when the level of rHb1.1 expression was 25%.

^c Some but not necessarily all of the codons for this amino acid are identical to an Ile codon at two of the three positions; 200 of the 575 codons tested were identical to an Ile codon at two of the three positions.